

Netherlands

Source  
number

- 1      Ref:      van Reek (1984) table 2  
         GFT table no: 2.1  
         PROBLEM Reference is wrong, cannot find Table elsewhere. May  
         have to omit.
- 2      Ref:      TON (1967 survey) cited by: de Haas and de Haas-  
                 Poshuma (19?), van Reek (1983) and Merzdorf (1982)  
                 quoting Ministerie (1975)  
         GFT table no: 2.3  
         Note:      Sample size 565
- 3      Ref:      TON (1970 survey) cited by: Baan (1984) pp.761-2 van  
                 Reek (1984) Merzdorf (1982) quoting Ministerie (1975)  
                 and de Haas (1973)  
         GFT table no: 2.4  
         Note:      Sample size 565
- 4      Ref:      Report for SWOAD by G. Sijbiling (1984) table 5.1 (From  
                 Todd (1986) p.206)  
         GFT table no: 5.1  
         Note: 1. Based on a representative national sample of 1,306  
                 persons interviewed in September 1983  
                 2. Regular cigarette smokers were those who defined  
                 themselves as such  
                 3. Interval estimation based on <3, 3-5, 6-10, 11-15,  
                 16-20, 21-25, >25
- 5      Ref:      Report for SWOAD by G. Sijlbing (1977), table 3.3.2  
                 (From Todd (1986) p.207)  
         GFT table no: 5.2  
         Note:      Based on random route interviews with 1,129 males and  
                 females representative of the Netherlands population in  
                 May-July 1976
- 6      Ref:      Todd (1986)  
         GFT table no: 4.1  
         Note:      Estimated by Todd
- 7      Ref:      van Reek (1984) p.49  
         GFT table no: 4.2  
         Note:      CONSUMPTION OF ALL TYPES OF TOBACCO, IN GRAMS
- 9      Ref:      Merzdorf (1982) quoting Gadourek (1963)  
         See also table 15  
         Note:      Guesstimates for age 15-20, % smokers A, Male:60;  
                 Female:40, % smokers UC, Male:50; Female:40

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- 10      Ref:      Merzdorf (1982) quoting Readers Digest (1963)  
         Note:      Guesstimates for age 15-20, % smokers A, Male:60;  
                     Female:40, % smokers UC, Male:50; Female:40
- 11      Ref:      Merzdorf (1982) quoting Gadourek and Jensen in  
                     Ministerie (1975)  
         Note:      Guesstimates for age 15-19, % smokers A, Male:60;  
                     Female:40. For age 15, % smokers UC, Male:30; Female:20
- 12      Ref:      Merzdorf (1982) quoting Nederlandse Stichting Voor  
                     Statistiek  
         Note:      The first age group is 10-12
- 13      Ref:      Kerrebijn et al (1977)
- 14      Ref:      de Haas (1974) quoting Wafelbakker (1968)  
         Note: 1.      Exact year not known, presumed males only. "In the  
                     middle sixties a careful study ... among (ex-)pupils  
                     of a technical school".  
                 2.      Also quoting Wiberdink and van Blaaderen-Stok (1957):  
                     "In the fifties 5-10% of 15 year old boys were regular  
                     smokers".
- 15      Ref:      van Reek (1983)  
         Note: 1.      Based on a research project on "risky habits". Sample  
                     size 1297, regional based.  
                 2.      Smokers self defined.  
                 3.      Some features suggest this is the same study as table  
                     9, but results do not agree.  
                 4.      Guesstimates for age 15-20, % smokers, Male:60;  
                     Female:40
- 16      Ref:      NIPO (1966 survey) cited by: Merzdorf (1982) quoting  
                     Ministerie (1975)  
         Note:      Sample size 565
- 17      Ref:      NIPO (1971 survey) cited by: Merzdorf (1982) quoting de  
                     Haas (1980)  
         Note:      Sample size 567
- 18      Ref:      NIPO (1972 survey) cited by: Merzdorf (1982), private  
                     communication  
         Note:      Sample size 1108
- 19      Ref:      NIPO (1973 survey) cited by: Merzdorf (1982), private  
                     communication  
         Note:      Sample size 1108
- 20      Ref:      NIPO (1974 survey) cited by: Merzdorf (1982), private  
                     communication  
         Note:      Sample size 1108

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- 21 Ref: NIPO (1976 survey) cited by: Merzdorf (1982), private communication  
Note: Sample size 1108
- 22 Ref: NIPO (1978 survey) cited by: Merzdorf (1982)  
Note: Sample size 1146
- 23 Ref: NIPO (1978 survey) cited by: Merzdorf (1982), private communication  
Note: Sample size 1108
- 24 Ref: NIPO (1979 survey) cited by: Merzdorf (1982), private communication and de Haas and de Haas-Postuma (?) (Todd 1986 pp.197,199,204)  
GFT table no: 2.2,2.3,3.1  
Note: 1. Based on a national survey of 10,501 men and 10,557 women  
2. There were no female cigar/pipe smokers
- 25 Ref: NIPO (1981 survey) cited by: van Reek (1983)
- 26 Ref: NIPO (1982 survey) cited by: van Reek (1984), (1983)  
Note: 1. Consumption figures per person based on "% manufactured cigarette smokers" and "(unspecified) cigarettes per cigarette smoker"  
2. The two papers by van Reek give the same table of consumption, but relating to either 1981 or 1982
- 27 Ref: NIPO (1983 survey) cited by: Stichting Volksgezondheid en Roken (1984)
- 28 Ref: NOP (1970 survey) cited by: Merzdorf (1982)  
Note: Sample size 1146
- 29 Ref: NOP (1972 survey) cited by: Merzdorf (1982) quoting Ministerie (1975) and van Reek (1984)  
Note: 1. Sample size 565  
2. Consumption figures per person based on "% manufactured cigarette smokers" and "(unspecified) cigarettes per cigarette smoker"  
3. Merzdorf gives figures as age 13+  
4. Cigarette consumption in grams - (Todd) CHECK!
- 30 Ref: NOP (1975 survey) cited by: Merzdorf (1982) and van Reek (1984),(1983)  
Note: Sample size 1146
- 31 Ref: NOP (1979 survey) cited by: van Reek (1984),(1983)
- 32 Ref: "Products and people" van Reek (1983)  
Note: Sample size?

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- 33      Ref:      van der Wal (1985)  
Note: 1. Sample size 24,989  
2. Interval estimation based on 1, 2, 3-4, 5-6, 7-9, 10-14, 15-19, 20-24, 25+
- 34      Ref:      van Reek et al (1985) quoting van Proosdij (1957)  
Note: 1. 17 local surveys in the period 1907-1916, by De Bond van Nederlandse onderwijzers (Association of Dutch teachers)  
2. Age group was 10-12. Also gives 26% at age 6-7  
3. It was assumed that few girls smoked
- 35      Ref:      van Reek et al (1985) quoting van Proosdij et al (1958)  
Note: 1. Sample size 2443  
2. Rotterdam/Amsterdam?
- 37      Ref:      ITL Market Research Dept.  
Note: 1. Confidential  
2. Nationally representative consumer survey, sample size 2000
- 38      Ref:      Stichting Volksgezondheid en Roken  
Note: 1. Based on surveys by NIPO  
2. In 1978-81, smokers defined as ever smoked, from 1982 onwards, smoked in last 4 weeks  
3. First age group is 10-12
- 39      Ref:      NIPO (1980 survey) cited by Stichting Volksgezondheid en Roken
- 40      Ref:      NIPO (1984 survey) cited by Stichting Volksgezondheid en Roken
- 41      Ref:      NIPO (1985 survey) cited by Stichting Volksgezondheid en Roken
- 42      Ref:      Geizerova and Masironi (1987)  
Note:      No original reference given

General note

Data for consumption for 1974 onwards, Ref: Central bureau voor de statistiek. Based on delivery of fiscal bands.

Consumption of HR. Up to 1966 from Merzdorf (1982) quoting Stichting Sigarettenindustrie 1980 based on 80% of fine cut tobacco; thereafter from Stichting Volksgezondheid en Roken based on a % of shag increasing from 80% in 1967 to 97% in 1985. Both sets of estimates assume 1 g per cigarette.

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De Haas (1973), and de Haas and de Haas-Postuma (?) - also give per capita consumption estimates for 5-yearly periods. The first paper say the estimates are based on 1.25g per cigarette, the second on 1g per cigarette. In the overlapping years, these estimates are declining relative to the SVR estimates.

	annual per capita	daily per capita	daily per adult	annual total	As % of SVR estimate
1925/29	608	1.7	2.4	4621	
30/34	710	1.9	2.8	5751	
35/39	595	1.6	2.3	5117	
46/49	364	1.0	1.4	3494	
50/54	530	1.5	2.0	5512	
55/59	455	1.2	1.9	5505	
60/64	512	1.4	2.0	6093	81
65/69	598	1.6	2.2	7535	77
70/72	622	1.7	2.3	8200	75
			2.7	10194	69

Adjustment code A indicates adjustment to total tobacco consumption, all products.

Cigarette consumption in tonnes was estimated from the number of cigarettes consumed by using a conversion factor of 1g per cigarette, based on the value used in RP6. The conversion factors for cigars and cigarillos respectively were 6.8g and 2.3g, but as only combined data were available after 1974, a weighted average of 5.6g was used.

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! Readers Digest (1963) 221,750,000 consommateurs. Paris

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Van Reek J, Drop MJ and Joosten J (1985) Het rookgedrag van Nederlandse schoolkinderen en de invloed van leeftijdgenoten en ouders. t. alc. drugs, 11, 74-79

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! Wafelbakker F (1968) Rookgewoonten bij mannelijke adolescenten (Smoking habit in male adolescents) Ned. T. Geneesk, 46, 518-525, 591-598

! Wiberdink J and van Blaaderen-Stok CL (1957) Bestrijding van Longkanker door beperking van tabaksgebruik (Fight against lung cancer by restriction of tobacco consumption) Ned. T. Geneesk, 101, 1695-1700

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Table A NETHERLANDS

Consumption of Cigarettes and of All Tobacco  
Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1923	1958	1.1					20600	11.8
1924	2507	1.4					23000	12.9
1925	1982	1.1					18700	10.2
1926	2369	1.3					21500	11.5
1927	2591	1.4					21300	11.2
1928	2791	1.4					21800	11.3
1929	3180	1.6					22200	11.3
1930	3590	1.8					23000	11.5
1931	3554	1.7					23600	11.5
1932	3655	1.8					24400	11.7
1933	3914	1.8					24700	11.7
1934	3926	1.8					22300	10.4
1935	4009	1.9					22500	10.4
1936	3969	1.8					23400	10.7
1937	4349	2.0					23900	10.7
1938	4766	2.1					24000	10.6
1939	5234	2.3					26500	11.5
1946	3332	1.3					12200	4.9
1947	5362	2.1					18300	7.3
1948	5334	2.1					19400	7.6
1949	6092	2.4					22800	8.8
1950	8048	3.1					24500	9.4
1951	8442	3.2					23400	8.9
1952	9472	3.6					24900	9.3
1953	10134	3.8					25700	9.6
1954	11296	4.2					27300	10.0
1955	11734	4.3					26600	9.7
1956	13149	4.7					28100	10.1
1957	13457	4.8					28600	10.2
1958	13043	4.6					29000	10.2
1959	13452	4.6					30300	10.5
1960	13753	4.7	7560	2.6	21313	7.3	31200	10.6
1961	14635	4.9	7660	2.6	22295	7.5	32800	11.0
1962	15190	5.0	7310	2.4	22500	7.4	32700	10.7
1963	16297	5.2	7520	2.4	23817	7.7	34900	11.2
1964	14073	4.4	7850	2.5	21923	6.9	32800	10.4
1965	17950	5.6	8890	2.8	26840	8.3	37700	11.7
1966	14201	4.3	8320	2.5	22521	6.9	33100	10.1
1967	16647	5.0	9056	2.7	25703	7.7	36100	10.9
1968	18497	5.5	9757	2.9	28254	8.4	38700	11.5
1969	16251	4.8	9719	2.9	25970	7.6	35200	10.3
1970	18675	5.4	9914	2.9	28589	8.3	38500	11.1
1971	19559	5.6	9999	2.8	29558	8.4	38500	11.0
1972	21660	6.1	10953	3.1	32613	9.2	41200	11.6
1973	23423	6.5	11669	3.2	35092	9.7	43900	12.2
1974	23428	6.4	13001	3.5	36429	9.9	44577	12.2
1975	23892	6.4	13085	3.5	36977	9.9	44841	12.0
1976	22523	6.0	13708	3.6	36231	9.6	44042	11.6
1977	26875	7.0	14695	3.8	41570	10.8	48746	12.7
1978	23463	6.0	14239	3.7	37702	9.7	44165	11.4
1979	26784	6.8	14383	3.6	41167	10.4	47367	12.0
1980	22975	5.7	13935	3.5	36910	9.2	42695	10.6
1981	21189	5.2	14733	3.6	35922	8.8	41390	10.2
1982	22127	5.4	15107	3.7	37234	9.0	42075	10.2
1983	23113	5.6	17350	4.2	40463	9.7	45235	10.9
1984	16032	3.8	17785	4.2	33817	8.0	38238	9.1
1985	16289	3.8	17855	4.2	34144	8.0	38487	9.0

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Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes millions = tons	Cigars & cigarillos millions	Cigars & cigarillos tons (assuming 5.6g per ci)	Cut Tobacco tons	Total Weight
1974	23,428	1,197	6,703	14,446	44,577
1975	23,892	1,201	6,726	14,223	44,841
1976	22,523	1,182	6,619	14,900	44,042
1977	26,875	1,084	6,070	15,801	48,746
1978	23,463	1,052	5,891	14,811	44,165
1979	26,875	927	5,191	15,301	47,367
1980	22,975	902	5,051	14,669	42,695
1981	21,289	820	4,592	15,509	41,390
1982	22,127	752	4,211	15,737	42,075
1983	23,113	723	4,049	18,073	45,235
1984	16,032	691	3,870	18,336	38,238
1985	16,289	677	3,791	18,407	38,487

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars & cigarillos	%cut tobacco
1974	52.56	15.04	32.41
1975	53.28	15.00	31.72
1976	51.14	15.03	33.83
1977	55.13	12.45	32.41
1978	53.13	13.34	33.54
1979	56.74	10.96	32.30
1980	53.81	11.83	34.36
1981	51.44	11.09	37.47
1982	52.59	10.01	37.40
1983	51.10	8.95	39.95
1984	41.93	10.12	47.95
1985	42.32	9.85	47.83

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## D Netherlands Male Percentage of smokers

frequency product source year	age group																				all ages						
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +					
10 34 U U	76																										
57 35 U U	46																										
58 9 UC U									74																		
58 9 A U									89																		
58 15 A U									91				91		89				89				90				
63 10 UC U									63																		
63 10 A U									82																		
63 32 A U									78				85				81				76				82		
65 14 UC U	25								60																		
66 16 TC U					67																						
66 16 A U					81																						
67 1 MC U					47				63				58				47				26						
67 2 MC U					59								47								52						
67 2 TC U					65						74		70				62				38				64		
67 2 A U					58						79				80				82				83				78
70 3 MC U					53								42								47						
70 3 TC U		41						70		71		69				58				30				59			
70 3 A U					55						77				77				78				74				75
70 11 UC U					61																						
70 11 A U									75																		
70 28 A U		72																									
71 17 TC U					58																						
71 17 A U					69																						
72 18 UC U					59																						
72 18 A U					70																						
72 29 MC U					48								41								44						
72 29 TC U		57																									
72 29 A U					66								72								68						
73 19 UC U					55																						
73 19 A U					66																						
73 37 UC U					38						40		50				35				22				39		
74 20 UC U					53																						
74 20 A U					62																						
75 1 MC U					21						36				40				35				22				
75 30 MC U					36								36								36						
75 30 TC U		53																									
75 30 A U					46						68				69				68				66				66
76 21 UC U					48																						
76 21 A U					57																						
78 22 UC U		49																									
78 22 A U		58																									
78 23 UC U					48																						
78 23 A U					56																						
78 38 U *	21	37																									
79 24 MC U					20						30				31				18				26				

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

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## D Netherlands Male Percentage of smokers continued

frequency product source year	age group																				all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	
79 24 TC U				28					45	55		52			49		29				45
79 24 A U				29					47	61		58			59		47				52
79 12 UC U	3	15		27		54															24
79 31 MC U				29							23							26			
79 31 A U				29					56			58		61		57				52	
79 38 U *	17	30																			
80 39 A U				30					56			54		56		52				52	
81 1 MC U				14					25			27		27		19					
81 25 A U				27					49			50		51		51				47	
81 38 U *	16	23																			
81 42 U U				31																	
82 26 MC U				19							22							21			
82 26 A U				18					45			44		45		43				41	
82 38 U A	6	22																			
83 4 TC R				17		30		39		42											32
83 4 TC A				21		38		46		44											37
83 27 A U				23					46			50		47		41				44	
83 33 A A	12	16	22	27	29	26	33														
83 38 U A	5	17																			
84 38 U A	4	19																			
84 40 A U				17					48			48		49		43				44	
85 38 U A	7	22																			
85 41 A U				22					46			48		47		42				43	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

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frequency product source year			age group																				all ages						
			12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +					
10	34	U U																											
57	35	U U	12																										
58	9	UC U											37																
58	9	A U											38																
58	15	A U											46					32		18			5		29				
63	10	UC U											32																
63	10	A U											32																
63	32	A U											45			38			20			3			32				
65	14	UC U																											
66	16	UC U											40																
66	16	A U											40																
67	1	MC U											56					56			45			26			13		
67	2	MC U											56					30										41	
67	2	TC U											59					56			46			26			12		42
67	2	A U											57					58			46			26			13		42
70	3	MC U											55					30										40	
70	3	TC U		44						62			56			48			26			11			42				
70	3	A U						57					57			48			27			13			42				
70	11	UC U											47																
70	11	A U											37																
70	28	A U		41																									
71	17	UC U											40																
71	17	A U											40																
72	18	UC U											44																
72	18	A U											44																
72	29	MC U											57					30										40	
72	29	TC U		41																									
72	29	A U											57					30										40	
73	19	UC U											42																
73	19	A U											42																
73	37	UC U											50					50			47			28			13		39
74	20	UC U											42																
74	20	A U											42																
75	1	MC U											33					48			40			26			11		
75	30	MC U											48					27										36	
75	30	TC U		40																									
75	30	A U											48					58			47			29			12		40
76	21	UC U											37																
76	21	A U											37																
78	22	UC U		36																									
78	22	A U		38																									
78	23	UC U											39																
78	23	A U											39																
78	38	U *	10	42																									
79	24	MC U											39					41					28			12			33

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501185997

frequency product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
79 24 TC U						39			55	51			40			30				13		38
79 24 A U						39			55	51			40			30				13		38
79 12 UC U	2	17			38		51															26
79 31 MC U						41										27						33
79 31 A U						39				52			40			30				13		38
79 38 U *	8	35																				
80 39 A U						31				44			38			28				11		34
81 1 MC U						23				38			34			25				10		
81 25 A U						30				48			39			28				13		36
81 38 U *	10	27																				
81 42 U U						34																
82 26 MC U						31										23						27
82 26 A U						27				45			36			27				13		33
82 38 U A	4	21																				
83 4 TC R					28		26		48	48												37
83 4 TC A					33		33		50	53												42
83 27 A U						28				48			39			25				12		35
83 33 A A	10	17	27	32	32	31	37															
83 38 U A	3	22																				
84 38 U A	4	23																				
84 40 A U						24				44			36			29				12		33
85 38 U A	3	24																				
85 41 A U						23				44			39			29				13		34

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501185998

## E Netherlands Male Cigarettes per smoker per day

product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
58 15 UC				18																			
72 29 UC				20																			
79 24 TC				11					14	16	17			16			14				15		
82 26 UC				23																			
83 4 TCI				9.1		11		15	18														
83 4 TC				9.1																			
83 33 UC	4.2			7.2		9.3																	

## E Netherlands Female Cigarettes per smoker per day

product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
58 15 UC				8																			
72 29 UC				12																			
79 24 TC				10					13	13	13			12			9				13		
82 26 UC				19																			
83 4 TCI				8.5		11		13	14														
83 4 TC				8.5																			
83 33 UC	4.7			7.2		7.3																	

U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 All ages: I indicates mean calculated from %s in intervals relevant to ages used and as given in original source

2501185999

## F Netherlands Male Cigarettes per person per day

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
58 7 A																							61%A
72 7 A																							67%A
72 29 UC *																							***
79 24 TC						3.1			6.3	8.8		8.8		7.8		4.1						6.8	56%T
79 6 MC																							--- M
81 7 A																							76%A
82 26 UC *																							***
83 4 TC					1.9	4.2		6.8	8.0														***
83 33 UC		0.7			2.0	2.6																	***

## F Netherlands Female Cigarettes per person per day

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
58 7 A																							61%A
72 7 A																							67%A
72 29 UC *																							***
79 24 TC						3.9			7.2	6.6		5.2		3.6		1.2						4.9	56%T
79 6 MC																							--- M
81 7 A																							76%A
82 26 UC *																							***
83 4 TC					2.8	3.8		6.3	7.7														***
83 33 UC		0.9			2.3	2.4																	***

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501186000

## G Netherlands Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales				
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +			
58 7 A				18																		61%A				
72 7 A				18																		67%A				
72 29 UC *				8.8																		***				
79 24 TC				5.5					11	16	16			14			7.4				12	56%T				
79 6 MC				6.5																		--- M				
81 7 A				13																		76%A				
82 26 UC *				4.8																		***				
83 4 TC				1.9		4.2		6.8		8.0																***
83 33 UC	0.7			2.0		2.6																		***		

## G Netherlands Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
58 7 A				2.3																		61%	
72 7 A				5.7																		67%	
72 29 UC *																						***	
79 24 TC				7.0					13	12	9.3			6.5			2.2				8.8	56%	
79 6 MC				7.1																		---	
81 7 A				7.3																		76%	
82 26 UC *																						***	
83 4 TC				2.8		3.8		6.3	7.7														***
83 33 UC	0.9			2.3		2.4																***	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501186001



Table H NETHERLANDS

year	source	product /freq code	% SMOKERS		tot cigs		all prods		product code	ORIGINAL		product adjust factor	CIGARETTES PER MAN & PER WOMAN		ADJUSTED		ADJUSTED	
			man cigs m	w	m	w	m	w		per man	per woman		to MAN CIGS per man	per woman	to TOT CIGS per man	per woman		
46																		
47																		
48																		
49																		
50																		
51																		
52																		
53																		
54																		
55																		
56																		
57																		
58	7								A	11.2	1.4	A 61	18.3	2.3				
	9	UC/U			71	37												
	9	A/U					85	38										
	15	A/U					86	33										
59																		
60																		
61																		
62																		
63	10	UC/U			61	33						T				( 10.7	4.7)	
	10	A/U					79	33										
	32	A/U					76	32										
64																		
65																		
66	16	UC/U			67	40						T				( 9.4	4.5)	
	16	A/U					81	40										
67	1	MC/U	52	41								M	( 6.2	3.9)				
	2	MC/U	52	41								M	( 6.2	3.9)				
	2	TC/U			64	42						T			( 10.2	5.3)		
	2	A/U					78	42										
68																		
69																		
70	3	MC/U	47	40								M	( 6.4	4.4)				
	3	TC/U			59	41						T			( 10.7	5.9)		
	3	A/U					74	42										
	11	UC/U			60	46						T			( 10.2	6.3)		
	11	A/U					73	37										
	28	A/U					72	41										
71	17	UC/U			58	40						T			( 10.9	6.0)		
	17	A/U					69	40										
72	7								A UC *	11.8	3.8	A 67	17.6	5.7				
	29									8.8								
	18	UC/U			59	44												
	18	A/U					70	44										
	29	MC/U	44	41								M	( 7.0	5.2)				
	29	TC/U			57	41						T			( 11.7	6.7)		
	29	A/U					69	41										
73	19	UC/U			55	42						T			( 12.1	7.4)		
	19	A/U					66	42										
	37	UC/U			39	39						T			( 10.8	8.7)		
74	20	UC/U			53	42						T			( 12.2	7.7)		
	20	A/U					62	42										
75	1	MC/U	33	34								M	( 7.1	5.8)				
	30	MC/U	36	36								M	( 7.2	5.7)				
	30	TC/U			53	40						T			( 12.4	7.5)		
	30	A/U					65	41										
76	21	UC/U			48	37						T			( 11.9	7.3)		
	21	A/U					57	37										
77																		
78	22	UC/U			49	36						T			( 12.3	7.2)		
	22	A/U					58	38										
	23	UC/U			48	39						T			( 11.8	7.7)		
	23	A/U					56	39										
79	24	TC/U			46	37			TC MC	7.1	4.6	T 56				12.7	8.2	
	6									6.5	7.1	M ---	6.5	7.1				
	24	MC/U	26	33								M	( 6.8	6.8)				
	24	A/U					53	37										
	31	MC/U	26	33								M	( 6.7	6.9)				
	31	A/U					54	37										
80	39	A/U					52	33										
81	7								A	9.9	5.5	A 76	13.1	7.3				
	1	MC/U	24	28								M	( 5.4	5.1)				
82	25	A/U					47	34	UC *	4.8								
	26																	

2501186002

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	26	MC/U	21	26
	26	A/U		
83	27	A/U		
84	40	A/U		
85	41	A/U		

41	32
44	33
44	32
44	33

M	(	5.3	5.4)
---	---	-----	------

2501186003

New Zealand

Source  
number

- 1     Ref:     Department of Statistics (1979) and (1983)  
       GFT table no: 2.1,3.1,2.2,3.2  
       Note: 1. Census results  
            2. Self-defined regular cigarette smokers on 22 March 1976  
              (the day before census day)  
            3. The figures include inhabitants of the Pacific Islands  
              that form part of New Zealand  
       ~ 4. Interval estimation based on 0-4, 5-9, 10-14, 15-19,  
             ...45-49,50+
- 3     Ref:     Hay and Christmas (1976) quoting National Research  
              Bureau (1975)  
       Note: 1. Surveys carried out for the Cancer Society of New  
              Zealand. 1200M and 1200F randomly selected from 19  
              areas  
            2. Interval estimation based on <10,10-19,20-29,30-39,40+
- 4     Ref:     Mitchell (1983)  
       Note: 1. Surveys in 3 Gisborne city high schools. Sample sizes  
              514 (1968) and 583 (1981)  
            2. Includes "occasional (once a week)" but not "rarely  
              (once or twice a year)"
- 5     Ref:     Mitchell (1983) and Masironi and Roy (1981) quoting  
              Beaglehole et al (1978)  
       Note:     Sample size 1000 (approx)
- 6     Ref:     Mitchell (1983) quoting Newman et al (1970)  
       Note:     Sample size 329
- 7     Ref:     Mitchell (1983)  
       Note: 1. National survey (no original reference)  
            2. Smoking at least 5 cigarettes per week
- 8     Ref:     Mitchell (1983) quoting Stanhope and Prior (1975)  
       Note:     Rotorua high school, sample size 294. Year unknown
- 9     Ref:     Ree (1986)  
       Note: 1. All pupils at high school in northern King Country  
              (small town/rural). Sample size 145M, 182F, Response  
              83.8%  
            2. Smoked at least one cigarette on most days of the week
- 10    Ref:     Hay (1976)  
       Note:     No original reference. Age group unknown
- 11    Ref:     WHO (1989)  
       Note: 1. Regional survey forming part of WHO MONICA Project

2501186004

Region	Population size	Sample size	Participation rate%	Sample used		Date
				M	F	
Auckland	256700	1950	81	1018	567	01.82-07.82

(whole country 1.0mn)

Figures are for age 35-64.

2. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or 1 g pipe tobacco per week, or 1 cigar per week.

- 12      Ref:      Geizerova and Masironi (1987)  
          Note:      No original reference given

#### General note

Data from 1974 onwards,      Ref:      Monthly Abstract of Statistics.  
 Cigarettes released for sale plus duty-paid imports.

Estimation of HR cigarette consumption is difficult due to the varying data sources available at different times. Data on cigarette papers are available from 1935-73. However the relationship between cigarette papers and tobacco does not suggest any steady trend, fluctuating between 85% and 140% (and even more in the post war period).

For three years, trade estimates of HR consumption are given in RP6:

	HR cigarettes		As % of	As % of
	Total	per adult daily	cigarette papers	tobacco
1966	1200	1.8	83	91
1970	660	0.9	63	72
1973	548	0.7	64	64

The fact that the two later estimates are low relative to both cigarette papers and tobacco suggest that they are too low.

In the period 1970-79 production figures were available separately for cigarette and pipe tobacco (see Table B). Cigarette tobacco as a % of the total remained steady throughout this period, with mean 78%.

The estimate selected is 78% of tobacco.

2501186005

New Zealand

! Beaglehole R, Eyles E and Harding W (1978) Cigarette smoking habits, attitudes and associated social factors in adolescents. New Zealand Medical Journal, 87, 239-42

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Hay DR and Christmas BW (1976) The smoking habits of women doctors and doctors' wives in New Zealand. Preventive Medicine, 5, 78-88

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World Health Organisation (1989) World Health Statistics Annual. (Section B: Special Topic, The WHO MONICA Project)

2501186006

Table A NEW ZEALAND

Consumption of Cigarettes and of All Tobacco  
Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1920	511	1.8					2000	6.8
1921	392	1.2					1700	5.2
1922	443	1.3					1700	5.2
1923	495	1.5					1700	5.2
1924	542	1.6					1800	5.5
1925	606	1.7					2000	5.5
1926	645	1.8					2000	5.5
1927	686	1.9					2200	6.0
1928	683	1.9					2100	5.8
1929	719	2.0					2300	6.3
1930	626	1.6					2200	5.5
1931	498	1.2					2100	5.2
1932	406	1.0					2000	5.0
1933	426	1.1					2000	5.0
1934	463	1.2					2100	5.2
1935	584	1.5					2200	5.5
1936	712	1.6					2500	5.7
1937	828	1.9					2700	6.2
1938	916	2.1					2800	6.4
1939	943	2.2					3000	6.8
1940	852	1.9					2900	6.6
1941	900	2.1					3000	6.8
1942	1000	2.3					2900	6.6
1943	1018	2.3					2700	6.2
1944	1134	2.6					2700	6.2
1945	1180	2.7					3000	6.8
1946	1582	3.3					3700	7.8
1947	2044	4.3					4200	8.9
1948	1682	3.5					3900	8.2
1949	1714	3.6					3900	8.2
1950	1984	4.0	1794	3.6	3778	7.6	4600	9.3
1951	2152	4.3	1872	3.7	4024	8.0	4800	9.6
1952	2080	4.1	1872	3.7	3952	7.8	4700	9.2
1953	2091	4.0	1950	3.8	4041	7.8	4900	9.4
1954	2306	4.4	1950	3.7	4256	8.1	5100	9.7
1955	2567	4.8	1872	3.5	4439	8.3	5300	9.9
1956	2629	4.8	1560	2.9	4189	7.7	5000	9.2
1957	2792	5.0	1716	3.1	4508	8.1	5400	9.7
1958	2606	4.6	1638	2.9	4244	7.5	5100	9.0
1959	2509	4.4	1638	2.8	4147	7.2	5000	8.7
1960	3082	5.3	1716	2.9	4798	8.2	5700	9.8
1961	3191	5.4	1716	2.9	4907	8.3	5800	9.8
1962	3383	5.6	1560	2.6	4943	8.1	5900	9.7
1963	3703	5.9	1560	2.5	5263	8.5	6200	10.0
1964	3796	6.0	1404	2.2	5200	8.2	6100	9.6
1965	4102	6.3	1170	1.8	5272	8.1	6200	9.5
1966	4557	6.9	1092	1.7	5649	8.6	6600	10.0
1967	4542	6.8	1014	1.5	5556	8.3	6400	9.5
1968	4649	6.8	936	1.4	5585	8.2	6400	9.4
1969	4818	7.0	858	1.2	5676	8.3	6500	9.4
1970	4952	7.1	799	1.1	5751	8.2	6700	9.6
1971	5118	7.2	753	1.1	5871	8.2	6800	9.5
1972	5405	7.3	728	1.0	6133	8.3	7100	9.6
1973	5525	7.4	668	0.9	6193	8.3	7100	9.5
1974	5771	7.5	612	0.8	6383	8.3	7306	9.5
1975	6230	7.9	585	0.7	6815	8.6	7790	9.9
1976	6231	7.7	548	0.7	6779	8.4	7743	9.6
1977	6345	7.9	521	0.6	6866	8.5	7838	9.8
1978	6267	7.7	476	0.6	6743	8.2	7692	9.4
1979	6131	7.4	449	0.5	6580	8.0	7504	9.1
1980	5991	7.2	427	0.5	6418	7.7	7318	8.8
1981	6168	7.3	432	0.5	6600	7.8	7524	8.9
1982	6112	7.1	420	0.5	6532	7.6	7446	8.7
1983	6089	7.0	426	0.5	6515	7.4	7427	8.5
1984	6236	7.0	417	0.5	6653	7.5	7581	8.5
1985	5654	6.3	385	0.4	6039	6.7	6882	7.6

2501186007

## New Zealand

Table B

Total sales of tobacco products, 1971-85

Year	Cigarettes millions	Cigarettes tons (assuming 1.13g per cig)	Production Cigarette Tobacco tons	Production pipe Tobacco tons	Production Tobacco total tons	Released Tobacco tons	Total Weight
1970			839	246	1,085	1,024	
1971	5,118	5,783	810	234	1,044	965	6,748
1972	5,405	6,108	794	240	1,034	933	7,041
1973	5,525	6,243	725	223	948	856	7,099
1974	5,771	6,521	676	189	865	785	7,306
1975	6,230	7,040	624	187	811	750	7,790
1976	6,231	7,041	632	183	815	702	7,743
1977	6,345	7,170	561	164	725	668	7,838
1978	6,267	7,082	526	141	667	610	7,692
1979	6,131	6,928	507	138	645	576	7,504
1980	5,991	6,770				548	7,318
1981	6,168	6,970				554	7,524
1982	6,112	6,907				539	7,446
1983	6,089	6,881				546	7,427
1984	6,236	7,047				534	7,581
1985	5,654	6,389				493	6,882

Table C

% of tobacco consumed in different forms, by weight, 1970-1985

Year	%cigarettes	%tobacco (released)
1970		
1971	85.70	14.30
1972	86.74	13.25
1973	87.95	12.06
1974	89.26	10.74
1975	90.37	9.63
1976	90.93	9.07
1977	91.48	8.52
1978	92.07	7.93
1979	92.32	7.68
1980	92.51	7.49
1981	92.63	7.36
1982	92.76	7.24
1983	92.64	7.35
1984	92.95	7.04
1985	92.84	7.16

2501186008

## D New Zealand Male Percentage of smokers

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
61 7 U R					24																	
68 4 U A					32																	
70 6 U A					38																	
74 3 U U																						
74 8 U U		30																				
75 10 UC U					41																	
76 1 UC R					28				41	42	43	42	43	44	43	39	37	33	29	25	19	38
76 5 U U	30		29																			
81 1 UC R					26				39	38	37	38	37	37	37	35	31	28	25	19	34	
81 4 U A					24																	
82 11 UC R												31	27		28							29
82 11 A A												37	33		33							34
85 9 U R		16			14																	
85 12 U U					27																	

## D New Zealand Female Percentage of smokers

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
61 7 U R					7																	
68 4 U A				25																		
70 6 U A				32																		
74 3 U U				33					37		36		40		19					31		
74 8 U U		30																				
75 10 UC U																						
76 1 UC R				29					38	37	37	34	34	35	33	30	25	19	14	10	5	31
76 5 U U	29		43																			
81 1 UC R				29					40	34	32	33	27	31	30	28	24	19	14	7		29
81 4 U A				47																		
82 11 UC R											26		26		32							25
82 11 A A											30		27		23							27
85 9 U R		26		18																		
85 12 U U				45																		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186009



## E New Zealand Male Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
74 3 UCI																						
76 1 UCI				14					17	18	19	20	20	21	20	19	17	16	14	12		18
81 1 UCI				14					17	18	19	19	20	20	20	19	18	16	14	12		18

## E New Zealand Female Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
74 3 UCI				12																		
76 1 UCI				13					15	15	15	16	16	16	15	14	13	12	11	9.8		15
81 1 UCI				12					15	15	16	16	16	16	15	14	14	12	11	10		15

Product: U unspecified \* refer to notes  
 MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 I indicates mean calculated from %s in intervals  
 All ages: relevant to ages used and as given in original source

2501186010

## F New Zealand Male Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
74 3 UC																						***
76 1 UC	4.0																				6.9	68%T
81 1 UC	3.5																				6.0	65%T

## F New Zealand Female Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
74 3 UC	3.7																					***
76 1 UC	3.6																				4.5	68%T
81 1 UC	3.5																				4.2	65%T

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

All ages: relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501186011

## G New Zealand Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
74 3 UC																						***	
76 1 UC				5.9					10	11	12	12	13	13	13	11	9.5	7.5	6.1	3.8		10	68%T
81 1 UC				5.4					10	10	10	11	11	11	11	10	8.5	6.8	5.6	3.5		9.3	65%T

## G New Zealand Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
74 3 UC				3.7																		***	
76 1 UC				5.3					8.3	8.3	8.3	7.8	8.0	8.1	7.2	6.2	4.9	3.4	2.2	1.0		6.6	68%T
81 1 UC				5.4					8.9	8.0	7.7	8.0	6.6	7.6	7.1	6.2	4.9	3.7	2.5	1.1		6.5	65%T

2501186012

U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 All ages: relevant to ages used and as given in original source  
 % total sales: % of national sales of M manufactured or T total cigarettes implied by survey  
 m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown  
 \*\*\* cannot be calculated --- adjusted by original author

Table H NEW ZEALAND

year	source	% SMOKERS				product code	CIGARETTES PER MAN & PER WOMAN		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
		product /freq code	man cigs m w	tot cigs m w	all prods m w		ORIGINAL per man	per woman		per man	per woman	per man	per woman
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
61													
62													
63													
64													
65													
66													
67													
68													
69													
70													
71													
72													
73													
74	3					UCI		3.7					
	3	U/U			31								
75	10	UC/U		41									
76	1	UC/R		38 31		UCI	7.0	4.4	t 68			10.3	6.5
77													
78													
79													
80													
81	1	UC/R		34 29		UCI	6.0	4.2	t 65			9.3	6.4
82													
83													
84													
85													

2501186013

Norway

Source  
number

- 1 Ref: Mørck et al (1982) p.139  
GFT table no: 2.1,2.2  
Note: Annual market analysis of smoking habits carried out by a public opinion institute, Norges Markeds - Data ("Market Data of Norway"). Sample size about 7000 M, 7000F.
- 2 Ref: Zeiner-Henriksen (1976) pp.617 and 646  
GFT table no: 2.3  
Note: Based on a random survey of the Norwegian population in 1964-65 contacted by post; 80% response rate - 6713 men and 8206 women
- 3 Ref: P933?  
GFT table no: 2.4,2.5,2.6  
Note: 1. Confidential  
2. Presumably smokers of any product  
3. Figures for 1969-75 are the average of two half-yearly surveys; 1976 is for first half of year
- 4 Ref: Central Bureau of Statistics for the National Council on Smoking and Health  
GFT table no: 2.7,3.2,3.3  
Note: 1. Daily smokers. The percentage of occasional smokers remained stable around 10% for both men and women (during 1973-84).  
2. Consumption of "cigarettes per smoker" is presumed "per smoker of any product"  
3. Guesstimates for age 15, % smokers, Male 1973-76:20, 1977-84:15; Female 1973-80:20, 1981-84:15. Cigs per person, Male:1.0; Female:0.8. For age 75+, % smokers, Male:30; Female:5. Cigs per person, Male 1.0, Female 0.5
- 6 Ref: Hermansen and Vellar (1974) table 1  
GFT table no: 5.1  
Note: 1. Daily smokers  
2. Sample size 1971 - 24338; 1972 - 24162
- 7 Ref: Aarø et al (1981), Aarø et al (1983) and National Council on Smoking and Health  
GFT table no: 5.2  
Note: 1. National study involving all schools. Sample size 2. 6968(1975), 5431 (1980), 5127 (1985)  
3. Consumption figures based on daily smokers  
1980 figures taken from graph

2501186014

- 8      Ref:      Aarø et al (1981) quoting Nilsen (1959) and Nilsen (1967)  
Note: 1. Sample size 9000 (1963)  
      2. Definitions are "daily" and "daily+occasional" smokers
- 9      Ref:      Adriaanse (1986) quoting Aluheim et al (personal communication)
- 10     Ref:      Adriaanse (1986) quoting Thürmer and Bjartveit (1986)  
Note:      Age unknown, national sample
- 11     Ref:      Geizerova and Masironi (1987)  
Note:      No original reference given

#### General note

Data for sales from 1974 onwards, and of cigarette papers, Ref: National Council on Smoking and Health. Note that figures for man. cigs. for 1939-54 from NCSH do not exactly agree with figures from RP6. Cigarette consumption in tonnes was estimated from the number of cigarettes consumed by using a conversion factor of 1g per cigarette. This factor was recommended by NCSH, on the basis of data on the weight of cigarettes 20 years ago. No more recent data is available, although it is possible that the weight of cigarettes has reduced during the last two decades.

HR consumption was estimated as 90% of cigarette paper sales. These estimates appear consistent with statements by Mørck et al (1982) that about 90% of smoking tobacco is accounted for by hand-rolled cigarettes, and that handrolled cigarettes as a percentage of all cigarettes rose from 10% before the Second World War to 60-70% (in 1982).

Estimates of HR consumption are also given in RP6:

	Total	Per adult daily
1966	2908	2.8
1970	3283	3.1
1973	3470	3.2

These estimates are within 3% of those given in Table A.

Note: Surveys 1 and 3 are presumably the same, but as I cannot find the original 3, which is marked confidential and has obscure source reference we will probably keep just 1. Mørck says this data can be purchased.

2501186015

Norway

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Adriaanse H, van Reek J and van Zutphen WM (1986) Rookgewoonten van artsen wereldwijd. Ned Tijdschr Geneesk, 130, no. 49, 2224-9

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Mørck IM, Linde J et al (1982) Tobaksforbrug og rygevaner i Norden. Nordisk medicin, 97, 129-160

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Pedersen E, Magnus K et al (1969) Lung cancer in Finland and Norway. Acta Pathologica et Microbiologica Scandinavica, Supplementum 199.

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2501186016

Table A NORWAY

Consumption of Cigarettes and of All Tobacco  
Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1927	512	0.7					3000	4.1
1928	510	0.7					3000	4.1
1929	545	0.7					3200	4.4
1930	615	0.8					3300	4.5
1931	551	0.8					3000	4.1
1932	568	0.7					3000	3.9
1933	583	0.8					3000	3.9
1934	619	0.8					3100	4.0
1935	651	0.8					3200	4.0
1936	731	0.9					3400	4.2
1937	841	1.0					3500	4.4
1938	833	1.0					3600	4.3
1939	909	1.1	85	0.1	994	1.2	3900	4.6
1940	973	1.2					4000	4.8
1941	725	0.9					3000	3.6
1942	608	0.7					2400	2.9
1943	562	0.6					2000	2.3
1944	358	0.4					1500	1.7
1945	517	0.6					1900	2.2
1946	1288	1.5	324	0.4	1612	1.8	4700	5.4
1947	1548	1.8	311	0.4	1859	2.1	5200	5.9
1948	1506	1.7	244	0.3	1750	1.9	5200	5.7
1949	1396	1.5	590	0.6	1986	2.2	5000	5.5
1950	1280	1.4	662	0.7	1942	2.2	4900	5.4
1951	1232	1.4	627	0.7	1859	2.1	4800	5.3
1952	1344	1.5	740	0.8	2084	2.3	5100	5.6
1953	1305	1.4	737	0.8	2042	2.2	5000	5.5
1954	1339	1.5	825	0.9	2164	2.3	5000	5.4
1955	1427	1.5	836	0.9	2263	2.4	5000	5.4
1956	1340	1.4	874	0.9	2214	2.4	4900	5.2
1957	1441	1.5	929	1.0	2370	2.5	5100	5.4
1958	1394	1.5	945	1.0	2339	2.5	5200	5.5
1959	1420	1.5	1019	1.1	2439	2.5	5300	5.5
1960	1491	1.5	1191	1.2	2682	2.8	5400	5.6
1961	1424	1.5	1916	2.0	3340	3.4	5700	5.8
1962	1464	1.5	2267	2.3	3731	3.8	5900	5.9
1963	1403	1.4	2482	2.5	3885	3.9	5700	5.7
1964	1280	1.3	2262	2.2	3542	3.5	5700	5.6
1965	1462	1.4	2644	2.6	4106	4.0	6000	5.9
1966	1506	1.5	2845	2.8	4351	4.2	6200	6.0
1967	1624	1.6	2934	2.8	4558	4.4	6300	6.1
1968	1773	1.7	3075	2.9	4848	4.6	6600	6.3
1969	1917	1.8	3368	3.2	5285	5.0	6800	6.4
1970	1831	1.7	3194	3.0	5025	4.7	6500	6.1
1971	1752	1.6	3251	3.0	5003	4.6	6400	5.9
1972	1862	1.7	3708	3.4	5570	5.1	6800	6.3
1973	1842	1.7	3555	3.2	5397	4.9	6800	6.2
1974	1735	1.6	4159	3.8	5894	5.3	6686	6.0
1975	1755	1.6	4231	3.8	5986	5.4	6759	6.1
1976	1720	1.5	4006	3.6	5726	5.1	6554	5.8
1977	1957	1.7	3978	3.5	5935	5.2	6801	6.0
1978	1851	1.6	3929	3.4	5780	5.1	6450	5.6
1979	2042	1.8	3961	3.4	6003	5.2	6776	5.9
1980	2232	1.9	4189	3.6	6421	5.5	7055	6.1
1981	1995	1.7	4281	3.7	6276	5.4	6763	5.8
1982	1750	1.5	3977	3.4	5727	4.8	6173	5.2
1983	1968	1.7	4197	3.5	6165	5.2	6273	5.3
1984	1950	1.6	3848	3.2	5798	4.8	6393	5.3
1985	2300	1.9	3761	3.1	6061	5.0	6695	5.5

2501186017



## Norway

Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes millions =tons	Cigars tons	Smoking tobacco tons	Chewing tobacco tons	Snuff tons	Total tons	Cigarette Papers millions
1974	1,735	90.21	4,493	85	283	6,686	4,621
1975	1,755	98.47	4,580	63	263	6,759	4,701
1976	1,720	101.36	4,397	69	267	6,554	4,451
1977	1,957	91.00	4,401	69	283	6,801	4,420
1978	1,851	84.21	4,188	59	268	6,450	4,365
1979	2,042	78.94	4,335	60	260	6,776	4,401
1980	2,232	76.24	4,427	57	263	7,055	4,654
1981	1,995	69.71	4,373	55	270	6,763	4,757
1982	1,750	61.06	4,066	48	248	6,173	4,419
1983	1,768	61.14	4,154	43	247	6,273	4,663
1984	1,950	65.28	4,062	42	274	6,393	4,275
1985	2,300	64.31	3,999	40	292	6,695	4,179

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars	%smoking tobacco	%chewing tobacco	%Snuff
1974	25.95	1.35	67.20	1.27	4.23
1975	25.97	1.46	67.76	.93	3.89
1976	26.24	1.55	67.09	1.05	4.07
1977	28.78	1.34	64.71	1.01	4.16
1978	28.70	1.31	64.93	.91	4.16
1979	30.14	1.16	63.98	.89	3.84
1980	31.64	1.08	62.75	.81	3.73
1981	29.50	1.03	64.66	.81	3.99
1982	28.35	.99	65.87	.78	4.02
1983	28.18	.97	66.22	.69	3.94
1984	30.50	1.02	63.54	.66	4.29
1985	34.35	.96	59.73	.60	4.36

2501186018

frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
57 8 U R		3	6	12																			
57 8 U A		57	57	60																			
60 1 A R					64					73			66			45				64			
61 1 A R					58					73			67			50				64			
62 1 A R					55					72			66			49				63			
63 1 A R					55					72			65			49				62			
63 8 U R	1	3	8	19																			
63 8 U A	47	47	50	58																			
64 1 A R					49					66			61			43				56			
64 2 U U												67	62		54		42						
65 1 A R					49					66			61			45				57			
66 1 A R					53					68			64			48				59			
67 1 A R					51					65			62				47				58		
68 1 A R					54					66			63				44				58		
69 1 A R					54					65			61				44				58		
69 3 A U					37					64		65			62				45				58
70 1 A R					54					59			62				44				56		
70 3 A U					34					61		60			61				44				56
71 1 A R					48					56			59				43				53		
71 3 A U					34					56		57			59				43				53
71 6 U R								5															
72 1 A R					50					55			58				42				53		
72 3 A U					37					57		56			58				42				53
72 6 U R								4															
73 1 A R					50					58			57				42				54		
73 3 A U					39					56		58			57				42				54
73 4 A R					44					49		59		57		53		39				51	
74 1 A R					50					56			54				39				52		
74 3 A U					33					59		57			54				40				52
74 4 A R					47					58		53		60		54		42				53	
74 9 U U					51																		
75 1 A R					45					55			57				44				52		
75 4 A R					38					50		46		58		55		41				48	
75 7 UC R	2	7	16	23																			
75 7 UC A	28	35	46	47																			
76 1 A R					47					56			56				46				51		
76 4 A R					44					51		51		61		45		39				49	
77 1 A R					42					52			51				40				47		
77 4 A R					36					48		49		48		48		35				44	
78 1 A R					44					53			53				42				49		
78 4 A R					39					52		46		47		44		41				45	
79 1 A R					43					52			50				39				47		
79 4 A R					33					50		45		46		45		39				43	
80 7 UC R		6	13	22																			
80 7 UC A		23	36	42																			

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501186019

frequency product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
80 1 A R				40						49			50			42					46	
80 4 A R					35					42		42		44		50		40				42
81 4 A R					34					45		43		47		34		35				40
82 4 A R					33					42		45		38		41		39				40
83 4 A R					29					43		46		44		51		41				42
84 4 A R					32					44		48		42		44		38				42
84 10 U U				46																		
85 7 UC R		3	11	21																		
85 7 UC A		18	28	43																		
85 4 A R					35					45		46		44		46		35				42
85 11 U U				38																		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186020

frequency product source year	age group																				all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	
57 8 U R		0	0	3																	
57 8 U A		25	36	40																	
60 1 A R					37						34			20			7				27
61 1 A R					40						34			22			6				28
62 1 A R					35						36			20			9				26
63 1 A R					35						38			22			7				27
63 8 U R	0	1	3	7																	
63 8 U A	28	33	38	43																	
64 1 A R					34						35			21			6				26
64 2 U U													36	24	15	7					
65 1 A R					33						35			21			7				26
66 1 A R					38						38			25			10				29
67 1 A R					38						39			23			8				30
68 1 A R					44						39			25			9				33
69 1 A R					47						43			25			11				36
69 3 A U					36					52	44		26			11				36	
70 1 A R					45						44			29			12				37
70 3 A U					33					52	43		29			10				37	
71 1 A R					45						42			26			9				35
71 3 A U					34					51	42		27			9				36	
71 6 U R																					
72 1 A R					48						43			30			10				38
72 3 A U					40					53	43		30			11				38	
72 6 U R																					
73 1 A R					49						43			31			14				38
73 3 A U					39					53	43		31			14				38	
73 4 A R					42					46	42	33	19	13					32		
74 1 A R					49						42			28			12				37
74 3 A U					44					53	43		29			13				37	
74 4 A R					43					47	37	37	20	9					32		
74 9 U U					32																
75 1 A R					55						48			36			15				39
75 4 A R					39					45	39	34	27	7					33		
75 7 UC R	2	7	17	28																	
75 7 UC A	24	36	51	59																	
76 1 A R					48						48			36			15				38
76 4 A R					40						39	38	38	22	12					32	
77 1 A R					52						47			37			18				40
77 4 A R					37						42	33	34	21	11					30	
78 1 A R					55						48			36			18				40
78 4 A R					36						42	35	37	21	11					31	
79 1 A R					49						48			37			19				39
79 4 A R					37					40	39	32	28	13					33		
80 7 UC R		4	11	21																	
80 7 UC A		19	35	46																	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501186021

frequency product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
80 1 A R								50			46				39					19		39
80 4 A R								36			41		36		30		21		11			30
81 4 A R								33			39		34		38		25		10			31
82 4 A R								37			48		35		33		28		15			34
83 4 A R								31			43		39		32		26		11			32
84 4 A R								31			46		40		41		26		10			34
84 10 U U													41									
85 7 UC R		3	10	19																		
85 7 UC A		17	27	39																		
85 4 A R								34			42		36		35		28		9			32
85 11 U U				40																		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186022

## E Norway Male Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
73 4 TC					12				16		14		14		12		9.1				13	
74 4 TC					11				14		14		15		13		10				13	
75 4 TC					11				15		16		13		12		11				13	
76 4 TC					12				15		14		12		12		9.7				13	
77 4 TC					12				15		17		15		12		11				14	
78 4 TC					11				15		15		12		12		11				13	
79 4 TC					13				15		16		15		12		10				14	
80 4 TC					12				15		13		16		11		11				13	
81 4 TC					12				15		18		14		14		12				14	
82 4 TC					13				14		15		14		15		11				14	
83 4 TC					14				15		17		15		15		11				15	
84 4 TC					14				14		16		16		14		15				15	
85 4 TC					15																	

## E Norway Female Cigarettes per smoker per day

product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
73 4 TC					9.4				11		9.7		10		10		8.6				9.9	
74 4 TC					10				9.2		12		10		9.7		8.2				10	
75 4 TC					9.7				11		11		12		11		6.9				11	
76 4 TC					9.7				11		11		11		10		8.3				10	
77 4 TC					9.7				11		12		10		9.4		11				11	
78 4 TC					10				12		12		11		9.7		11				11	
79 4 TC					11				11		13		10		10		9.1				11	
80 4 TC					9.4				12		12		12		10		11				11	
81 4 TC					12				10		13		12		11		8.5				11	
82 4 TC					10				11		13		10		9.2		9.5				11	
83 4 TC					11				12		12		13		11		8.1				11	
84 4 TC					11				12		13		12		12		12				12	
85 4 TC					12																	

Product: U unspecified \* refer to notes  
 MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 All ages: I indicates mean calculated from %s in intervals  
 relevant to ages used and as given in original source

2501186023

## F Norway Male Cigarettes per person per day

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
73 4 TC					5.3				8.0				8.2		8.0		6.2		3.5				6.7	94%T
74 4 TC					5.4				8.2				7.6		9.1		6.7		4.3				7.0	90%T
75 4 TC					4.3				7.3				7.5		7.8		6.7		4.6				6.3	85%T
76 4 TC					5.4				7.5				7.2		7.4		5.3		3.8				6.3	87%T
77 4 TC					4.5				7.1				8.1		7.1		5.8		3.8				6.1	83%T
78 4 TC					4.3				8.0				6.9		5.7		5.3		4.6				5.9	85%T
79 4 TC					4.4				7.4				7.0		6.9		5.5		3.9				6.0	84%T
80 4 TC					4.1				6.2				5.4		7.1		5.7		4.4				5.5	74%T
81 4 TC					4.0				6.6				7.5		6.4		4.7		4.3				5.7	78%T
82 4 TC					4.2				5.8				6.9		5.4		6.2		4.3				5.6	87%T
83 4 TC					4.1				6.3				7.8		6.6		7.8		4.5				6.3	86%T
84 4 TC					4.5				6.1				7.9		6.8		6.0		5.5				6.3	95%T
85 4 TC					6.2																			92%T

## F Norway Female Cigarettes per person per day

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
73 4 TC					3.9				4.8				4.1		3.3		2.0		1.1				3.2	94%
74 4 TC					4.3				4.3				4.4		3.7		1.9		0.7				3.2	90%
75 4 TC					3.8				4.9				4.1		3.9		2.8		0.5				3.5	85%
76 4 TC					3.9				4.1				4.1		4.1		2.3		1.0				3.3	87%
77 4 TC					3.6				4.8				3.9		3.5		2.0		1.2				3.2	83%
78 4 TC					3.7				4.8				4.2		4.1		2.0		1.3				3.4	85%
79 4 TC					3.9				4.3				5.0		3.3		2.8		1.2				3.6	84%
80 4 TC					3.4				4.9				4.4		3.5		2.1		1.2				3.3	81%
81 4 TC					3.9				4.1				4.3		4.4		2.8		0.9				3.5	78%
82 4 TC					3.7				5.4				4.7		3.4		2.6		1.4				3.7	87%
83 4 TC					3.3				5.2				4.5		4.0		2.7		0.9				3.6	86%
84 4 TC					3.3				5.4				5.0		4.8		3.1		1.2				4.0	95%
85 4 TC					3.8																			92%

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501186024

## G Norway Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
73 4 TC					5.6				8.5		8.7		8.5		6.6		3.7				7.1	94%T		
74 4 TC					6.0				9.1		8.5		10		7.5		4.8				7.8	90%T		
75 4 TC					5.1				8.6		8.8		9.2		7.9		5.4				7.4	85%T		
76 4 TC					6.2				8.6		8.3		8.5		6.1		4.4				7.3	87%T		
77 4 TC					5.4				8.6		9.8		8.6		7.0		4.6				7.4	83%T		
78 4 TC					5.0				9.4		8.1		6.7		6.2		5.4				6.9	85%T		
79 4 TC					5.3				8.9		8.4		8.3		6.6		4.7				7.2	84%T		
80 4 TC					5.6				8.4		7.3		9.6		7.7		6.0				7.5	74%T		
81 4 TC					5.1				8.4		9.6		8.2		6.0		5.5				7.3	78%T		
82 4 TC					4.8				6.7		7.9		6.2		7.1		4.9				6.4	87%T		
83 4 TC					4.7				7.3		9.0		7.6		9.0		5.2				7.3	86%T		
84 4 TC					4.7				6.4		8.3		7.1		6.3		5.8				6.6	95%T		
85 4 TC					6.8																			92%T

## G Norway Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
73 4 TC					4.1				5.1		4.3		3.5		2.1		1.2				3.4	94%		
74 4 TC					4.8				4.8		4.9		4.1		2.1		0.8				3.6	90%		
75 4 TC					4.5				5.8		4.8		4.6		3.3		0.6				4.1	85%		
76 4 TC					4.5				4.7		4.7		4.7		2.6		1.2				3.8	87%		
77 4 TC					4.3				5.8		4.7		4.2		2.4		1.4				3.9	83%		
78 4 TC					4.3				5.6		4.9		4.8		2.3		1.5				4.0	85%		
79 4 TC					4.7				5.1		6.0		4.0		3.4		1.4				4.3	84%		
80 4 TC					4.6				6.7		6.0		4.8		2.9		1.6				4.5	78%		
81 4 TC					5.0				5.2		5.5		5.6		3.6		1.2				4.5	78%		
82 4 TC					4.3				6.2		5.4		3.9		3.0		1.6				4.3	87%		
83 4 TC					3.8				6.0		5.2		4.6		3.1		1.0				4.2	86%		
84 4 TC					3.5				5.7		5.3		5.0		3.3		1.3				4.2	95%		
85 4 TC									4.2															92%

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501186025



Table H NORWAY

year	source	% SMOKERS				product code	ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
		product /freq code	man cigs m w	tot cigs m w	all prods m w		per man	per woman		per man	per woman	per man	per woman
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60	1	A/R			63 25								
61	1	A/R			63 26								
62	1	A/R			61 25								
63	1	A/R			61 26								
64	1	A/R			55 24								
65	1	A/R			55 24								
66	1	A/R			58 28								
67	1	A/R			57 28								
68	1	A/R			58 30								
69	1	A/R			57 32								
	3	A/U			58 32								
70	1	A/R			56 33								
	3	A/U			55 33								
71	1	A/R			53 32								
	3	A/U			53 32								
72	1	A/R			52 34								
	3	A/U			52 34								
73	4					TC	6.3	3.0	T 94			6.6	3.2
	1	A/R			53 35								
	3	A/U			53 35								
	4	A/R			49 31								
74	4					TC	6.6	3.1	t 90			7.3	3.4
	1	A/R			51 34								
	3	A/U			51 34								
	4	A/R			51 31								
	9	U/U			51 32								
75	4					TC	6.0	3.2	t 85			7.1	3.7
	1	A/R			51 37								
	4	A/R			47 31								
76	4					TC	5.8	3.1	t 87			6.7	3.5
	1	A/R			52 35								
	4	A/R			47 30								
77	4					TC	5.7	3.0	t 83			6.9	3.6
	1	A/R			47 37								
	4	A/R			43 28								
78	4					TC	5.5	3.1	t 85			6.5	3.7
	1	A/R			49 38								
	4	A/R			44 29								
79	4					TC	5.6	3.2	t 84			6.7	3.8
	1	A/R			47 37								
	4	A/R			42 30								
80	4					TC	5.1	3.1	t 74			7.0	4.1
	1	A/R			46 37								
	4	A/R			41 28								
81	4					TC	5.3	3.2	t 78			6.7	4.0
	4	A/R			39 28								
82	4					TC	5.1	3.3	t 87			5.9	3.8
	4	A/R			39 31								
83	4					TC	5.8	3.2	t 86			6.7	3.7
	4	A/R			41 29								
84	4					TC	5.7	3.5	t 95			6.0	3.7
	4	A/R			40 30								
	10	U/U			46 41								
85	4					TC	5.8	3.4	t 92			6.3	3.8
	4	A/R			41 29								

2501186026

Portugal

Source  
number

- 1      Ref:      Tabaqueira, Lisbon  
         GFT table no: 2
- 2      Ref:      Adriaanse et al (1986) quoting Medeiros et al (1982)  
         Note:    Local study, age group and other details unknown
- 3      Ref:      Geizerova and Masironi (1987)  
         Note:    No original reference given

General Note

Data for man. cigs. for 1973-78, Ref:    Maxwell International Estimates.  
Man. cigs and rolling tobacco 1979-85, Ref:    Tabaqueira, Lisbon.

HR? - Awaiting further information

HR estimate, 1966 from RP6. This gave handrolled consumption as 1.0 million lbs (450 tons) equivalent to 697 million cigarettes, out of total tobacco consumption of 1.2 million lbs (540 tons). This gives 0.65g per hand rolled cigarette, and 85% of tobacco used for H.R. We have used this as the basis of our estimates up to 1972 (not yet entered). The figures from Tabaqueira show rolling tobacco as 90%-93% of all tobacco in the period 1979-85.

2501186027

Portugal

Adriaanse H, van Reek J and van Zutphen WM (1986) Rookgewoonten van artsen wereldwijd. Ned Tijdschr Geneskd, 130, no. 49, 2224-9

Geizerova H and Masironi R (1987) Cigarette Smoking in Children and Adolescents : World Review. In: Aoki M, Hisamichi S and Tominaga S (Eds) Smoking and Health 1987. Proceedings of 6th World Conference on Smoking and Health, Tokyo.

!Mederiros JAS, Marques PH et al (1982) Inquerito aos habitos tabaquicos dos medicos do Hospital da Universidade de Coimbra. Coimbra Medica, 3, 255-60

2501186028

Table A PORTUGAL

Consumption of Cigarettes and of All Tobacco  
 Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1940	1428	0.7					3300	1.7
1941	1716	0.9					3700	1.9
1942	2170	1.1					4300	2.2
1943	2251	1.1					4300	2.2
1944	2305	1.1					4500	2.2
1945	2411	1.2					4700	2.3
1946	2626	1.3					4900	2.4
1947	3161	1.5					5000	2.4
1948	3343	1.6					5400	2.6
1949	3573	1.7					5300	2.5
1950	3633	1.7					5100	2.4
1951	3802	1.7					5300	2.4
1952	4183	1.9					5700	2.6
1953	4215	1.9					5600	2.5
1954	4317	1.9					5500	2.4
1955	4674	2.0					5800	2.5
1956	5100	2.2					6000	2.6
1957	5088	2.2					5900	2.5
1958	5510	2.4					6300	2.7
1959	5778	2.5					6500	2.8
1960	6287	2.7					7000	3.0
1961	5570	2.4					6300	2.7
1962	5827	2.5					6500	2.8
1963	6757	2.9					7500	3.2
1964	7029	3.0					7800	3.3
1965	7482	3.2					8000	3.4
1966	7989	3.4	697	0.3	8686	3.7	8600	3.7
1967	8237	3.5					8800	3.7
1968	8820	3.7					9300	3.9
1969	8689	3.7					9200	3.9
1970	8924	4.0					9300	4.1
1971	9082	4.0					9500	4.2
1972	9406	4.2					9800	4.4
1973	10203	4.5						
1974	11052	4.7						
1975	12043	4.8						
1976	11834	4.6						
1977	12564	4.9						
1978	12537	4.9						
1979	11986	4.6	184	0.1	12170	4.7		
1980	11988	4.5	155	0.1	12143	4.5		
1981	12606	4.7	144	0.1	12750	4.8		
1982	12990	4.8	129	0.0	13119	4.8		
1983	13635	4.9	131	0.0	13766	5.0		
1984	13507	4.8	139	0.0	13646	4.8		
1985	13594	4.8	137	0.0	13731	4.8		

2501186029

Portugal

Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes with filter millions	Cigarettes without filter millions	Cigarettes total millions =tons	Cigarettes (Maxwell)	Rolling tobacco tons	Pipe tobacco tons	Total Weight kgs
1973				10,203			
1974				11,052			
1975				12,043			
1976				11,834			
1977				12,564			
1978				12,537			
1979	9,385	2,601	11,986	12,311	184	14	12,184
1980	9,690	2,298	11,988	12,338	155	14	12,157
1981	10,530	2,076	12,606		144	12	12,762
1982	11,004	1,986	12,990		129	13	13,132
1983	11,644	1,991	13,635		131	15	13,781
1984	11,537	1,970	13,507		139	15	13,661
1985	11,786	1,808	13,594		137	15	13,746

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	% rolling tobacco	%pipe tobacco
1975			
1976			
1977			
1978			
1979	98.37	1.51	.11
1980	98.61	1.27	.12
1981	98.78	1.13	.09
1982	98.92	.98	.10
1983	98.94	.95	.11
1984	98.87	1.02	.11
1985	98.89	1.00	.11

2501186030

## D Portugal Male Percentage of smokers

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
80 2 U U				41																		
83 1 UC U		35																				
83 3 U U									62													

## D Portugal Female Percentage of smokers

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
80 2 U U				9																		
83 1 UC U		10																				
83 3 U U									30													

2501186031

U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

Table H PORTUGAL

year	source	% SMOKERS				CIGARETTES PER MAN & PER WOMAN										
		product /freq code	man cigs		tot cigs		all prods		product code	ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
			m	w	m	w	m	w		per man	per woman		per man	per woman	per man	per woman
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
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75																
76																
77																
78																
79																
80	2	U/U					41	9				T			(	8.2 1.4)
81																
82																
83	1	UC/U			35	10						T			(	8.3 2.0)
84																
85																

2501186032

Spain

Source  
number

- 1 Ref: World Health Organization, Regional Office for Europe, 1975  
GFT table no: 2  
Note: Presumed to be 1970, age 16+
  - 2 Ref: Adriaanse et al (1986) quoting Salvador - Llivina (1983)  
Note : Catalonia. No details of method.
  - 3 Ref: Vioque and Bolumar (1987)  
Note: 1. Sample-based survey by National Institute for Statistics.  
2. Lowest age group is 6-13.  
3. Interval estimation based on 0-20 (assumed 1-19), 20+. Alternative allocation of smokers of 20 per day could have a large effect. High level of non-response in 65+ age group.
  - 4 Ref: Tomas et al (1979)  
Note: 1. Study of 663 male patients observed for coronary risk factors over 5 years.  
2. Smokers of 20 or more cigarettes per day  
3. From 1968-73 the authors note a reduction in the % heavy smokers aged 50-54 but not younger ages.
  - 5 Ref: Adriaanse et al (1986) quoting WHO (1985)  
Note: Age group unknown
  - 6 Ref: WHO (1989)  
Note: 1. Regional survey forming part of WHO MONICA Project
- | Region    | Population size | Sample size | Participation rate% | Sample used<br>M F | Date        |
|-----------|-----------------|-------------|---------------------|--------------------|-------------|
| Catalonia | 367300          | 2629        | 76                  | 1276 1293          | 04.86-07.88 |
- (whole country 13.0mn)
2. Overall % relates only to age 35-64.
  3. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or lg. pipe tobacco per week, or 1 cigar per week.
  4. This survey has been included despite the fact that it was conducted after the period considered in this report, since very little other age-specific data is available for Spain.

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General note

Data for sales from 1974 onwards, Ref: Series Historicas de Consumo de Tabaco Elaborado 1957-88, Tabacalera, Madrid. Figures given as packets of cigarettes (both manufactured and hand rolled) have been converted assuming 20 cigarettes = 1 packet. Smoking tobacco has been converted assuming 25g = 1 packet (ie. 1.25g per HR cigarette)

Manufactured cigarette consumption in tonnes was estimated from the number of cigarettes by using a conversion factor of 1g per cigarette. The conversion factor for cigars was 6.8g. These are based on the values used in RP6.

Population data for 1984 and 1985 estimated from WHO annual.

2501186034

Spain

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! Salvador-Llivina T (1983) Smoking prevention in Catalunya. European Workshop on Smoking and Health, WHO/Euro, Suzdal, USSR

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WHO Meeting Southern European Action on Smoking. Smoking survey among health professionals in Catalunya 1985. WHO/Euro and Dept. Sanitat. i Seg. Soc., 1985

World Health Organisation (1989) World Health Statistics Annual. (Section B:Special topic, The WHO MONICA Project)

2501186035

Table A SPAIN

Consumption of Cigarettes and of All Tobacco  
 Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1927	5416	1.0	19200	3.4	24616	4.4	26800	4.7
1928	6592	1.2					27600	4.8
1929	7367	1.3					27300	4.7
1930	7822	1.3					27600	4.7
1931	7611	1.3					27800	4.6
1932	8198	1.4					27800	4.6
1933	7775	1.3					25700	4.2
1934	7117	1.2					26500	4.3
1935	6718	1.1					27400	4.4
1940	6756	1.0					19300	2.9
1941	7198	1.1					15100	2.3
1942	7440	1.1					13900	2.1
1943	9160	1.4					16100	2.4
1944	8813	1.3					18900	2.8
1945	9192	1.3					23400	3.4
1946	10261	1.5					28900	4.2
1947	10927	1.6					26700	3.8
1948	9783	1.4					24900	3.6
1949	10010	1.4					29200	4.0
1950	8825	1.2					28800	3.9
1951	9682	1.3					26500	3.5
1952	11538	1.5					32700	4.3
1953	12707	1.7					25800	3.4
1954	13839	1.8					29400	3.8
1955	15554	2.0					30700	4.0
1956	15109	1.9					29100	3.7
1957	18222	2.3	10213	1.3	28435	3.6	31300	4.0
1958	21872	2.8	10467	1.3	32339	4.1	35200	4.5
1959	22839	2.9	8969	1.1	31808	4.0	34300	4.3
1960	24892	3.1	8072	1.0	32964	4.1	35300	4.4
1961	27220	3.4	7620	0.9	34840	4.3	37100	4.6
1962	30294	3.7	6075	0.7	36369	4.4	38700	4.7
1963	33915	4.1	4521	0.5	38436	4.7	41000	5.0
1964	36570	4.4	3621	0.4	40191	4.8	43100	5.2
1965	40087	4.8	3501	0.4	43588	5.2	46900	5.6
1966	42324	5.0	3055	0.4	45379	5.3	49000	5.8
1967	44999	5.3	2521	0.3	47520	5.6	51300	6.0
1968	47174	5.4	2170	0.2	49344	5.7	53200	6.1
1969	47287	5.4	2006	0.2	49293	5.6	53000	6.0
1970	50084	5.6	1647	0.2	51731	5.8	55800	6.3
1971	50843	5.7	1495	0.2	52338	5.8	56700	6.3
1972	53234	5.9	1242	0.1	54476	6.0	59400	6.6
1973	56623	6.2	1155	0.1	57778	6.3	63300	6.9
1974	60378	6.6	1118	0.1	61496	6.7	68175	7.4
1975	58321	6.3	951	0.1	59272	6.4	66973	7.2
1976	63205	6.6	862	0.1	64067	6.7	71214	7.4
1977	66869	6.9	795	0.1	67664	7.0	74637	7.7
1978	63490	6.4	567	0.1	64057	6.5	70024	7.1
1979	70508	7.1	534	0.1	71042	7.1	77238	7.7
1980	70437	6.9	564	0.1	71001	7.0	77288	7.6
1981	64256	6.3	502	0.0	64758	6.3	71111	6.9
1982	68739	6.6	437	0.0	69176	6.7	75330	7.2
1983	71190	6.7	390	0.0	71580	6.8	77290	7.3
1984	74205	7.0	348	0.0	74553	7.0	80328	7.6
1985	79137	7.4	323	0.0	79460	7.4	85142	7.9

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## Spain

Table B

Total sales of tobacco products, 1957-85

Year	Manufacture cigarettes millions = tons	Handrolled cigarettes millions (assuming 20 per packet)	Smoking tobacco (assuming 23/25g per packet) tons	Cigars thousands	Cigars tons (assuming 6.8g per cigar)	Total Weight
1957	18,222	10,213	11,745	175,350	1,192	31,159
1958	21,028	10,467	12,037	194,599	1,323	34,388
1959	22,843	8,969	10,314	193,588	1,316	34,473
1960	25,417	8,072	9,282	180,821	1,230	35,929
1961	27,664	7,620	8,763	199,381	1,356	37,783
1962	30,587	6,075	6,987	210,308	1,430	39,004
1963	34,235	4,521	5,199	276,480	1,880	41,314
1964	37,062	3,621	4,165	337,407	2,294	43,521
1965	40,550	3,501	4,026	397,964	2,706	47,282
1966	42,672	3,055	3,514	459,667	3,126	49,312
1967	45,013	2,521	2,899	493,259	3,354	51,266
1968	47,108	2,170	2,496	515,476	3,505	53,109
1969	47,422	2,006	2,307	499,530	3,397	53,126
1970	50,641	1,647	1,894	560,818	3,814	56,349
1971	51,638	1,495	1,719	601,227	4,088	57,445
1972	53,012	1,242	1,553	668,615	4,547	59,112
1973	56,602	1,155	1,444	763,808	5,194	63,240
1974	60,378	1,118	1,397	941,161	6,400	68,175
1975	58,321	951	1,189	1,097,542	7,463	66,973
1976	63,205	862	1,078	1,019,192	6,931	71,214
1977	66,869	795	993	996,354	6,775	74,637
1978	63,490	567	709	856,583	5,825	70,024
1979	70,508	534	667	891,551	6,063	77,238
1980	70,437	564	705	903,825	6,146	77,288
1981	64,256	502	628	915,674	6,227	71,111
1982	68,739	437	546	888,912	6,045	75,330
1983	71,190	390	488	825,274	5,612	77,290
1984	74,205	348	435	836,399	5,688	80,328
1985	79,137	323	404	823,729	5,601	85,142

Table C

% of tobacco consumed in different forms, by weight, 1957-85

Year	%cigarettes	% smoking tobacco	%cigars
1957	58.48	37.69	3.83
1958	61.15	35.00	3.85
1959	66.26	29.92	3.82
1960	70.74	25.83	3.42
1961	73.22	23.19	3.59
1962	78.42	17.91	3.67
1963	82.87	12.58	4.55
1964	85.16	9.57	5.27
1965	85.76	8.51	5.72
1966	86.53	7.13	6.34
1967	87.80	5.65	6.54
1968	88.70	4.70	6.60
1969	89.26	4.34	6.39
1970	89.87	3.36	6.77
1971	89.89	2.99	7.12
1972	89.68	2.63	7.69
1973	89.50	2.28	8.21
1974	88.56	2.05	9.39
1975	87.08	1.78	11.14
1976	88.75	1.51	9.73
1977	89.59	1.33	9.08
1978	90.67	1.01	8.32
1979	91.29	.86	7.85
1980	91.14	.91	7.95
1981	90.36	.88	8.76
1982	91.25	.72	8.02
1983	92.11	.63	7.26
1984	92.38	.54	7.08
1985	92.95	.47	6.58

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## D Spain

## Male Percentage of smokers

frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
68 4 UC R											38												
70 1 U U					66																		
73 4 UC R											31												
78 3 UC U	14		23		62				72		66				65			46			54		
82 2 U U	58																						
85 5 U U				59																			
87 6 UC R										63		53		42		43							47
87 6 A A										66		63		54		52							47

## D Spain

## Female Percentage of smokers

frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
68 4 UC R																							
70 1 U U					10																		
73 4 UC R																							
78 3 UC U	3		4		48				48		16				5			3			17		
82 2 U U	20																						
85 5 U U				20																			
87 6 UC R										37		12		4		2							7
87 6 A A										41		14		5		4							8

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

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E Spain

Male Cigarettes per smoker per day

product source year	age group																			all ages			
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74		75 - 79	80 +	
78	3	UCI*				12			13				18			20			19			18	

E Spain

Female Cigarettes per smoker per day

product source year	age group																			all ages		
	12	13	14	15	16	17	18	19	20 -	25 -	30 -	35 -	40 -	45 -	50 -	55 -	60 -	65 -	70 -		75 -	80 +
	24	29	34	39	44	49	54	59	64	69	74	79										
78	3	UCI*			9.7			11	13			14				13				12		

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U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

## F Spain Male Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 -	25 -	30 -	35 -	40 -	45 -	50 -	55 -	60 -	65 -	70 -	75 -	80 +	
78 3 UC *				2.7			7.9		13		13				13				8.3			105%T

## F Spain Female Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 -	25 -	30 -	35 -	40 -	45 -	50 -	55 -	60 -	65 -	70 -	75 -	80 +	
78 3 UC *			0.4			5.3			6.3		2.1				0.6				0.4			105%T

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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## G Spain Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 -	25 -	30 -	35 -	40 -	45 -	50 -	55 -	60 -	65 -	70 -	75 -	80 +	
78 3 UC *				2.6			7.6		12			13			12				7.9			105%

## G Spain Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 -	25 -	30 -	35 -	40 -	45 -	50 -	55 -	60 -	65 -	70 -	75 -	80 +	
78 3 UC *				0.4			5.1		6.0			2.0			0.6				0.4			105%

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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Table H SPAIN

year	source	% SMOKERS				CIGARETTES PER MAN & PER WOMAN										
		product /freq code	man cigs		tot cigs		all prods		product code	ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
			m	w	m	w	m	w		per man	per woman		per man	per woman	per man	per woman
40																
41																
42																
43																
44																
45																
46																
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66																
67																
68																
69																
70	1	U/U				65	10				T				(	10.7 1.3)
71																
72																
73																
74																
75																
76																
77																
78	3	UC/U			54	15		UC1*	11.7	2.2	T 105				11.2	2.1
79																
80																
81																
82	2	U/U				58	20				T				(	10.6 2.9)
83																
84																
85	5	U/U				59	20				T				(	11.9 3.2)

2501186042

Sweden

Source  
number

- 1 Ref: Svenska Tobaks AB  
GFT table no: 2.1  
Note: 1. 1969 figures represent 1969/70, and so on  
2. Guesstimates for age 68+, % smokers, Male:15; Female:5
- 2 Ref: World Health Organization, Regional Office for Europe, 1975  
GFT table no: 2.2  
Note: Guesstimates for age 68+, % smokers, Male:15; Female:5
- 3 Ref: Diagram 7.1, p.98 of un-named document supplied by SCB Statistics Sweden. 1977 figures also in Haglund (1987)  
GFT table no: 2.3  
Note: 1. Daily smokers  
2. Apparently same series as table 8  
3. Guesstimates for age 15, % smokers, Male 1977:20, 1983:10; Female 1977:25, 1983:20. For age 75+, Male 1977:20, 1983:15; Female 1977,83:5
- 4 Ref: Mørck et al (1982) p.142 based on data from Svenska Tobaks  
GFT table no: 2.4  
Note: Daily smokers
- 5 Ref: Dr. B. Floderus-Myrhed (private communications). Data from Swedish part of Swedish-Finnish twin cohort study  
GFT table no: 3  
Note: Data for 1967 based on all like-sexed twin pairs born in Sweden 1886-1925 provided that both in a pair were alive in 1967 and that both answered a questionnaire in that year. Corresponding criteria applied to the younger cohort born 1926-58 and where both were alive in 1972
- 6 Ref: Central Bureau of Statistics (1965)  
GFT table no: 4  
Note: 1. Mail survey of approx 56,000 people  
2. Interval estimation based on 1-3,4-7,8-15,16-25,26+  
3. Guesstimates for age 15-17, % smokers A, Male:25; Female:20. % smokers UC, Male:20; Female:20. Cigs per person, Male:1.0; Female:0.8. For age 70+, % smokers A, Male:30; Female:2. % smokers UC, Male:15; Female:2. Cigs per person, Male:1.0, Female:0.5
- 7 Ref: Ramstrom (1981) and WHO (1978)  
GFT table no: 5

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- 8 Ref: Rosén et al (1987)  
 Note: 1. Figures taken from diagram  
 2. Surveys of Living Conditions, conducted by Statistics Sweden. Randomly selected sample, 11,000 (1977), 12,700 (1980/81)  
 3. Guesstimates for age 15, % smokers, Male:10; Female:20. For age 75+, Male:20; Female:5
- 9 Ref: Ramstrom (1986)  
 Note: Sample size 2000. Only selected results from abstract available.
- 10 Ref: Noppa and Bengtsson (1980)  
 Note: Population sample (1462 women) aged 38, 46, 50, 54 and 60 in Göteborg. 90.1% response rate
- 11 Ref: Holmqvist (1985)  
 Note: 2 secondary modern schools in Lund. Sample size 203M, 201F
- 12 Ref: Adriaanse et al (1976) quoting Ramstrom (1985)  
 Note: Age group unknown
- 13 Ref: Aarø et al (1981) quoting Lukács (1978)
- 14 Ref: ITL Market Research Department  
 Note: 1. Confidential  
 2. Nationally representative consumer survey, sample size 2000
- 15 Ref: Cox and Marks (1983)  
 Note: 1. No original source reference  
 2. Representative sample  
 3. Guesstimates for age 15-17, % smokers A and UC, Male:15; Female:20. For age 70+, % smokers A, Male:20; Female:5. % smokers UC, Male:15; Female:5
- 16-17 Ref: WHO (1989)  
 Note: 1. 2 regional surveys forming part of WHO MONICA Project

Region	Population size	Sample size	Participation rate%	Sample used M F	Date
16 Göteborg	153400	1461	75	685 726	02.85-11.86
17 Northern Sweden	189700	1501	84	935 923	01.86-04.86

(whole country 3.lmn)

Sample used includes age 25-34, all other figures are for age 35-64 only.

2. Overall % relates only to age 35-64.  
 3. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or

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- lg. pipe tobacco per week, or 1 cigar per week.
4. It seemed sensible to include the survey in Northern Sweden despite its being carried out after the period considered in this report, because of the overlapping periods and differing results from the two regions.

- 18      Ref:      Haglund (1987)  
         Note:      No original reference. Age group unknown
- 19      Ref:      Geizerova and Masironi (1987)  
         Note:      No original reference

General note

Data for domestic sales of tobacco products, for 1974 onwards, Ref: Svenska Tobaks AB.

There is little evidence on which to base estimates of HR cigarette consumption before 1980. Mørck et al (1982) stated that "HR cigarettes account for only 4-5% of the overall cigarette market in 1980". Assuming 1g per HR cigarette, this represented approximately 45% of smoking tobacco. This agrees with figures from Svenska Tabaks AB for "Roll-your-own tobacco", available from 1981 onwards, but these figures, and figures for cigarette papers and filters from 1980, show that consumption of HR cigarettes rose during the 1980s, both absolutely and relative to other smoking products. In 1985, for instance, they represented 10% of total cigarettes, and 74% of smoking tobacco. However these figures may give a distorted picture since they include border trade to Norway where HR cigarettes are a major product. We have used 45% of smoking tobacco as our estimate of HR cigarette consumption to 1980, although there is no indication of the validity of this estimate. From 1981 onwards, we have used the figures for roll-your-own tobacco, assuming 1 gram per cigarette.

2501186045

Sweden

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Central Bureau of Statistics (1965) Rökvanor i Sverige. En postenkäutundersökning våren 1963. (Smoking Habits in Sweden. A mail survey Spring 1963) Stockholm

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Table A SWEDEN

Consumption of Cigarettes and of All Tobacco  
Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1920	1559	1.0					9300	6.1
1921	1345	0.9					8600	5.6
1922	1123	0.7					8200	5.3
1923	1058	0.7					7900	5.0
1924	1089	0.7					7800	5.0
1925	1085	0.7					7900	4.9
1926	1204	0.7					7900	4.8
1927	1284	0.8					7700	4.7
1928	1446	0.9					7700	4.7
1929	1640	1.0					7700	4.6
1930	1864	1.1					7800	4.6
1931	1999	1.2					7900	4.6
1932	2012	1.2					8000	4.7
1933	1894	1.1					7800	4.5
1934	1878	1.1					7800	4.5
1935	1843	1.0					7900	4.4
1936	1806	1.0					8000	4.5
1937	1822	1.0					8100	4.5
1938	1889	1.0					8300	4.5
1939	1976	1.1					8300	4.5
1940	2126	1.1					8300	4.5
1941	2191	1.2					8400	4.5
1942	2235	1.2					7200	3.9
1943	2237	1.2					7200	3.9
1944	2307	1.2					8500	4.5
1945	2468	1.3					8900	4.7
1946	3141	1.7					9600	5.1
1947	3670	1.9					9900	5.1
1948	3809	2.0					10000	5.2
1949	3984	2.0					9900	5.0
1950	4352	2.2	675	0.3	5027	2.6	10000	5.1
1951	4416	2.2	630	0.3	5046	2.6	9600	4.9
1952	5121	2.6	675	0.3	5796	2.9	10400	5.2
1953	5248	2.6	675	0.3	5923	3.0	10400	5.2
1954	5289	2.6	675	0.3	5964	3.0	10400	5.2
1955	5548	2.7	675	0.3	6223	3.1	10500	5.2
1956	5714	2.8	630	0.3	6344	3.1	10500	5.2
1957	5903	2.9	585	0.3	6488	3.2	10600	5.2
1958	6066	2.9	675	0.3	6741	3.2	10700	5.2
1959	6240	3.0	675	0.3	6915	3.3	11100	5.3
1960	6740	3.2	720	0.3	7460	3.5	11900	5.6
1961	7216	3.4	675	0.3	7891	3.7	12200	5.7
1962	7498	3.5	675	0.3	8173	3.8	12300	5.7
1963	7860	3.6	675	0.3	8535	3.9	12500	5.7
1964	7810	3.5	765	0.3	8575	3.9	12800	5.8
1965	8300	3.7	765	0.3	9065	4.1	13000	5.8
1966	8700	3.9	765	0.3	9465	4.2	13400	5.9
1967	8927	3.9	765	0.3	9692	4.3	13200	5.8
1968	9679	4.2	765	0.3	10444	4.6	13300	5.8
1969	10147	4.4	720	0.3	10867	4.7	13300	5.8
1970	10269	4.4	721	0.3	10990	4.7	13100	5.6
1971	9957	4.3	689	0.3	10646	4.5	12500	5.3
1972	11243	4.8	644	0.3	11887	5.1	13300	5.7
1973	9265	3.9	649	0.3	9914	4.2	11700	5.0
1974	11070	4.7	609	0.3	11679	4.9	13092	5.5
1975	11673	4.9	579	0.2	12252	5.2	13287	5.6
1976	11988	5.0	557	0.2	12545	5.3	13711	5.8
1977	11357	4.7	522	0.2	11879	5.0	13057	5.5
1978	11727	4.9	504	0.2	12231	5.1	13220	5.5
1979	11973	4.9	489	0.2	12462	5.1	13420	5.5
1980	11910	4.9	508	0.2	12418	5.1	13395	5.5
1981	11482	4.7	524	0.2	12006	4.9	13056	5.3
1982	12062	4.9	734	0.3	12796	5.2	13820	5.6
1983	11560	4.7	968	0.4	12528	5.1	13757	5.6
1984	11502	4.6	1246	0.5	12748	5.1	14170	5.7
1985	11152	4.5	1245	0.5	12397	5.0	13996	5.6

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Sweden

Table B

Total sales of all tobacco products, 1974-1985

Year	Manufactured Cigarettes		Cigars	Cigarillos	Cigars+ Cigarillos		Smoking Tobacco	Roll-your -own tobacco (included in smoking tobacco)	Other smoking tobacco
	thousands	tons	thousands	thousands	millions	tons	tons	tons	tons
1974	11,070,000	8,437	8,311	243,210	252	474	1,354		
1975	11,673,000	8,579	7,790	241,895	250	465	1,286		
1976	11,988,000	8,827	7,161	234,073	241	443	1,238		
1977	11,357,000	8,142	6,213	200,683	201	380	1,159		
1978	11,727,000	8,319	5,308	173,533	179	325	1,119		
1979	11,973,000	8,464	5,124	161,776	167	301	1,087		
1980	11,910,000	8,303	4,961	149,949	155	280	1,129		
1981	11,482,000	7,911	4,465	137,773	142	243	1,124	524	600
1982	12,062,000	8,326	4,260	133,476	138	229	1,313	734	579
1983	11,560,000	7,990	3,802	121,476	125	203	1,511	968	543
1984	11,502,000	7,891	3,554	115,669	119	178	1,747	1,246	501
1985	11,152,000	7,561	3,207	107,806	111	175	1,680	1,245	435

Year	cigarette paper & filters millions	Chewing Tobacco	Moist Snuff	Total Weight
		tons	tons	tons
1974		15	2,812	13,092
1975		14	2,943	13,287
1976		14	3,189	13,711
1977		15	3,361	13,057
1978		15	3,442	13,220
1979		18	3,550	13,420
1980		18	3,665	13,395
1981		24	3,754	13,056
1982		23	3,929	13,820
1983		24	4,029	13,757
1984	1,135	21	4,333	14,170
1985	1,209	20	4,560	13,996

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars	%smoking tobacco	%chewing tobacco	% snuff
1974	64.44	3.62	10.34	.11	21.48
1975	64.57	3.50	9.68	.11	22.15
1976	64.38	3.23	9.03	.10	23.26
1977	62.36	2.91	8.88	.11	25.74
1978	62.93	2.46	8.46	.11	26.04
1979	63.07	2.24	8.10	.13	26.45
1980	61.99	2.09	8.43	.13	27.36
1981	60.59	1.86	8.61	.18	28.75
1982	60.25	1.66	9.50	.17	28.43
1983	58.08	1.48	10.98	.17	29.29
1984	55.69	1.26	12.33	.15	30.58
1985	54.02	1.25	12.00	.14	32.58

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frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
46 18 U U					50																		
63 6 UC R							44		42		36		26								35		
63 6 A R							51		54		53		46								49		
67 5 UC U													35		28		23		14				
68 10 U U																							
69 1 UC U					43																		
69 12 U U					54																		
70 1 UC U					42																		
71 1 UC U					40																		
71 2 UC U							44		48		43		39		37		33				42		
71 4 A R					55																		
71 7 U U		14				41																	
72 1 UC U					40																		
72 4 A R					55																		
72 5 UC U				28						41		34		30									
72 7 U U		10					35																
72 12 U U					49																		
73 1 UC U					40																		
73 4 A R					56																		
73 7 U U		10					31																
73 14 UC U					43						39		30		44		24				38		
74 1 UC U					39																		
74 4 A R					55																		
74 7 U U		10					31																
75 1 UC U					41						41		33						39				
75 4 A R					54																		
76 1 UC U					36						40		29						35				
76 4 A R					52																		
76 13 U U					27																		
77 1 UC U					33						41		29						34				
77 3 U R					35						48		43		42		39		32				
77 4 A R					50																		
77 7 U U		9					25																
77 12 U U					39																		
77 13 U U					25																		
78 1 UC U					34						37		27						33				
78 4 A R					47																		
79 1 UC U					28						37		29						32				
79 4 A R					47																		
80 1 UC U					20						34		28						29				
80 7 U U		5					21																
80 8 U R					28						40		38		35		33				36		
80 15 UC R							26																
80 15 A R							31																
81 1 UC U					28						34		25						29				

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501186050

frequency product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
81 11 U R				18																		
81 11 U A	0		22																			
82 1 UC U							29					33				27						30
82 12 U U												30										
83 1 UC U							24					36				24						29
83 3 U R							22			37		37		37		32		25				
84 19 U U					16																	
85 9 UC R							14						36									
85 16 UC R										26		35		34		27						32
85 16 A A										42		44		40		36						41
86 17 UC R										21		24		24		23						24
86 17 A A										37		37		34		31						34

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186051

frequency product source year	age group																				all ages				
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +			
46 18 U U				9																					
63 6 UC R								36		32		25		11									23		
63 6 A R								36		32		25		11									23		
67 5 UC U													28		17		8		2						
68 10 U U												47		44	37	38	20								
69 1 UC U					33																				
69 12 U U					32																				
70 1 UC U					35																				
71 1 UC U					34																				
71 2 UC U					43				49		38		33		23		12				35				
71 4 A R					34																				
71 7 U U		16				47																			
72 1 UC U					34																				
72 4 A R					34																				
72 5 UC U				35						45		34		28											
72 7 U U		12				47																			
72 12 U U					33																				
73 1 UC U					34																				
73 4 A R					35																				
73 7 U U		10				45																			
73 14 UC U					46						38		32		28		16				35				
74 1 UC U					36																				
74 4 A R					36																				
74 7 U U		12				45																			
75 1 UC U					46						38		21								35				
75 4 A R					36																				
76 1 UC U					49						38		23								37				
76 4 A R					38																				
76 13 U U					40																				
77 1 UC U					43						36		21								33				
77 3 U R					46						45		33		27		22		11						
77 4 A R					34																				
77 7 U U		11				40																			
77 12 U U					21																				
77 13 U U					40																				
78 1 UC U					41						38		23								34				
78 4 A R					35																				
79 1 UC U					39						38		23								33				
79 4 A R					34																				
80 1 UC U					37						36		20								31				
80 7 U U		6				33																			
80 8 U R					37						38		29		20		13				30				
80 15 UC R								26																	
80 15 A R								26																	
81 1 UC U					37						36		25								32				

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186052

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
81 11 U R			7																			
81 11 U A	0		14																			
82 1 UC U				35						33				23							31	
82 12 U U				30																		
83 1 UC U				35						35				19							30	
83 3 U R					29					38		35		28		20		9				
84 19 U U					22																	
85 9 UC R										41						13						
85 16 UC R										41		37		38		27					35	
85 16 A A										44		42		42		30					39	
86 17 UC R										29		35		24		18					27	
86 17 A A										35		40		28		20					31	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186053

## E Sweden Male Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
63 6 UCI							8.4			13		12			10							12
67 5 UC													11		9.8		7.9		6.6			
72 5 UC					11				13		14		14									

## E Sweden Female Cigarettes per smoker per day

product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
63 6 UCI							8.3			8.9		9.1			7.9							8.7	
67 5 UC													9.3		8.8		8.3		5.8				
72 5 UC					9.3			12		11		12											

Product: U unspecified \* refer to notes  
 MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 I indicates mean calculated from %s in intervals  
 All ages: relevant to ages used and as given in original source

2501186054

## F Sweden Male Cigarettes per person per day

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
63 6 UC							3.7			5.3		4.4			2.6								4.0	65%T
67 5 UC													4.0		2.8		1.8		0.9					***
72 5 UC					2.9				5.3		4.7		4.2											***

## F Sweden Female Cigarettes per person per day

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
63 6 UC							3.0			2.8		2.3			0.8							2.0	65%
67 5 UC													2.6		1.5		6.6		1.2				***
72 5 UC					3.3				5.2		3.8		3.2										***

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501186055

## G Sweden Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
63 6 UC								5.7		8.1		6.7			4.0								6.1	65%
67 5 UC													4.0		2.8		1.8		0.9					***
72 5 UC					2.9				5.3		4.7		4.2											***

## G Sweden Female Cigarettes per person per day adjusted

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
63 6 UC							4.6		4.3		3.5		1.2									3.1	65%
67 5 UC													2.6		1.5		6.6		1.2				***
72 5 UC				3.3				5.2		3.8		3.2											***

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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Table H SWEDEN

year	source	% SMOKERS						CIGARETTES PER MAN & PER WOMAN							
		product /freq code	man cigs m w	tot cigs m w	all prods m w	product code	ORIGINAL per man	per woman	product adjust factor	ADJUSTED to MAN CIGS per man	per woman	ADJUSTED to TOT CIGS per man	per woman		
40															
41															
42															
43															
44															
45															
46															
47															
48															
49															
50															
51															
52															
53															
54															
55															
56															
57															
58															
59															
60															
61															
62															
63	6	UC/R		32 20		UC1	3.4	1.7	t 65			5.2	2.6		
64	6	A/R			47 20										
65															
66															
67															
68															
69	1	UC/U		40 29					t			( 6.0	3.5)		
	12	U/U			54 32										
70	1	UC/U		39 31					t			( 5.8	3.7)		
71	1	UC/U		37 30					t			( 5.6	3.5)		
	2	UC/U		38 30					t			( 5.6	3.5)		
	4	A/R			55 34										
72	1	UC/U		37 29					t			( 6.2	3.9)		
	4	A/R			55 34										
	12	U/U			49 33										
73	1	UC/U		37 29					t			( 5.2	3.3)		
	4	A/R			56 35										
	14	UC/U		36 32					t			( 5.0	3.5)		
74	1	UC/U		36 31					t			( 5.9	4.0)		
	4	A/R			55 36										
75	1	UC/U		35 30					t			( 6.2	4.2)		
	4	A/R			54 36										
76	1	UC/U		33 31					t			( 6.0	4.6)		
	4	A/R			52 38										
77	1	UC/U		32 28					t			( 5.8	4.1)		
	3	U/R			39 29										
	4	A/R			50 34										
	12	U/U			39 21										
78	1	UC/U		31 29					t			( 5.8	4.4)		
	4	A/R			47 35										
79	1	UC/U		30 28					t			( 5.8	4.5)		
	4	A/R			47 34										
80	1	UC/U		26 26					t			( 5.6	4.6)		
	8	U/R			35 27										
	15	UC/R		24 23					m	( 5.6	4.2)				
	15	A/R			29 23										
81	1	UC/U		28 28					t			( 5.4	4.4)		
82	1	UC/U		28 26					t			( 6.0	4.4)		
	12	U/U			30 30										
83	1	UC/U		27 25					t			( 5.8	4.4)		
	3	U/R			31 25										
84															
85															

2501186057



Switzerland

Source  
number

- 1      Ref:      Abelin and Müller (1983) tables 1a and 1b  
         GFT table no: 2.1,2.2,3.1,3.2  
         Note: 1. French and German speaking regions  
              2. The % of smokers UC\* and the consumption per smoker are  
              for smokers of cigarettes only. The calculation of per  
              person figures for males assumes that consumption by  
              "cigarette and other" smokers is the same as by  
              "cigarette only" smokers  
              3. Interval estimation based on 1-9,10-19,20+  
              4. Guesstimates for age 75+, % smokers A, Male 1975:30,  
              1981:25. % smokers UC, Male 1975:25, 1981:15;Female:10.  
              % smokers UC\*, Male 1975:20, 1981:15; Female:10. Cigs  
              per person, Male:1975:4.0, 1980:3.0; Female:0.5
  
- 3      Ref:      Binder et al (1979)  
         Note: 1. Representative samples in Canton of Zurich.  
              2. Sample size 1971: 6033M, 1376F  
                              1978: 3579M, 2296F  
              3. Interval estimation based on 1-2,3-7,8-14,15-21,>21
  
- 4      Ref:      Nater et al (1985)  
         Note: 1. 2 cities, controls in community intervention program,  
              sampled in 77/78, followed-up in 80/81. Sample size  
              1358.  
              2. Consumption figures are for all types, in grams.  
              3. Guesstimates for age 15, % smokers Male and Female:15.  
              Cigs per person, Male:2.0; Female:1.0. For age 70+, %  
              smokers, Male:40; Female:10. Cigs per person, Male:5.0;  
              Female:1.0
  
- 5      Ref:      Battegay et al (1988)  
         Note: 1. Military recruits in 72/73, followed-up in 79 and 85.  
              These figures are based on sample size 843, evaluated  
              on all 3 enquiries, out of 4082 original recruits.  
              2. Age groups unknown - presumably originally age 20.  
              3. Consumption figures are for all types, in grams.  
              4. Interval estimation based on 1-8,9-24,>24 (assumed  
              means 4,18,35)
  
- 6      Ref:      Biener (1984)  
         Note: 1. Study of 1033M, 1260F working in 44 factories.  
              2. Year unknown.  
              3. As in Source 1, consumption figures based on "cigarette  
              only" smokers, so figures "per adult" assume that  
              consumption by "cigarette and other" smokers is the  
              same as by "cigarette only" smokers.  
              4. Interval estimation based on 1-9,10-19,20-29,30+

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5. Guesstimates for age 15-19, % smokers A and UC, Male and Female:35. For age 65+, % smokers A, Male:30. % smokers UC, Male:20; Female:10
  6. Assumed no female smokers of other products.
  - 7 Ref: La Vecchia et al (1987)  
Note: 1. Swiss National Health Survey, 1981-83. Randomly selected sample (4255), response rate 72.9%.  
2. Guesstimates for age 15-19, % smokers, Male:30; Female:25
  - 8 Ref: ITL Market Research Dept  
Note: 1. Confidential  
2. Nationally representative consumer survey, sample size 2000
  - 9-10 Ref: WHO (1989)  
Note: 1. 2 regional surveys forming part of WHO MONICA Project
- | Region          | Population size | Sample size | Participation rate% | Sample used<br>M F | Date        |
|-----------------|-----------------|-------------|---------------------|--------------------|-------------|
| 9 Vaud/Fribourg | 280200          | 1966        | 62                  | 851 778            | 10.84-06.85 |
| 10 Ticino       | 110900          | 1948        | 78                  | 781 769            | 11.85-05.86 |
- (whole country 2.4mn)  
Sample used in Vaud/Fribourg includes age 25-34, all other figures are for age 35-64 only.
2. Overall % relates only to age 35-64.
  3. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or lg. pipe tobacco per week, or 1 cigar per week.
- 11 Ref: Geizerova and Masironi (1987)  
Note: No original reference given

#### General note

Figures for 1936 relate to 1934-37; 1939 to 1938-40

Consumption data for 1974 onwards, Ref: Schweizerische Fachstelle für Alkoholprobleme, Lausanne.

2501186059

Estimates of cigarette consumption in Switzerland based on different sources vary considerably, for instance for the years 1971-75:

	RP6	SFA	Maxwell International Estimates	
			Series A	Series B
71	17900	19640	30900	
72	18700	18039	32000	
73	16500	17834	31076	
74		17170	28000	17600
75		16247		15500

No information on smoking of HR cigarettes is available. (However, I guess it is negligible e.g. Source 1, 28% of smokers smoke pipe/cigars with or without cigarettes, but tobacco and cigars combined account for 21% of sales.)

Trümpy (1983) summarised the development of smoking in Switzerland as follows: "According to Swiss documents, a resistance initially arose against smoking, which was imported from America and propagated mainly among soldiers, but it eventually became increasingly tolerated. Outdoor smoking was disapproved of up to the mid 19th century, and women were not allowed to indulge in cigarette smoking before 1918; since 1945, it has increased in both sexes. Medical warning began extensively only after 1970".

2501186060

Switzerland

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Trümpy H (1983) Volkskundliche Überlegungen zum Rauchen (Smoking in History). Therapeutische Umschau/Revue Thérapeutique, 40, 165-168

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2501186061

Table A SWITZERLAND

Consumption of Cigarettes and of All Tobacco  
 Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams adult daily
1936	1728	1.5					6800	5.8
1939	2262	1.9					7300	6.1
1941	2746	2.3					8500	7.1
1942	2715	2.3					8300	6.9
1943	3167	2.6					8600	6.9
1944	3444	2.8					8300	6.7
1945	3964	3.2					8400	6.8
1946	4416	3.5					10200	8.0
1947	5009	3.9					10500	8.2
1948	4989	3.9					10000	7.8
1949	5143	3.9					9400	7.2
1950	5405	4.1					9800	7.4
1951	5672	4.3					10000	7.6
1952	6222	4.7					10700	8.0
1953	6191	4.6					10500	7.8
1954	6236	4.6					10400	7.6
1955	6625	4.8					10800	7.8
1956	7081	5.1					11100	8.0
1957	7488	5.3					10900	7.7
1958	8248	5.8					11800	8.2
1959	8557	5.9					12100	8.3
1960	9751	6.6					12900	8.7
1961	10866	7.2					14100	9.4
1962	11691	7.6					15200	9.8
1963	11986	7.6					16600	10.5
1964	11550	7.2					16400	10.2
1965	13728	8.5					18400	11.3
1966	11051	6.7					15600	9.5
1967	12715	7.7					17300	10.4
1968	13603	8.1					18200	10.8
1969	15427	9.0					20000	11.7
1970	16300	9.5					20800	12.1
1971	17900	10.3					22200	12.8
1972	18700	10.7					23400	13.3
1973	16500	9.3					21000	11.8
1974	17170	9.6						
1975	16247	9.0						
1976	15365	8.5						
1977	16652	9.2						
1978	15570	8.6						
1979	15494	8.4						
1980	16338	8.8						
1981	15279	8.1						
1982	16392	8.6						
1983	16426	8.6						
1984	16529	8.6						
1985	16438	8.5						

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## Switzerland

Table 8

Total sales of tobacco products, 1971-85

Year	Number of Cigarettes millions	Number of Cigars productn 000s	Number of cigars import 000s	Number of cigars export 000s	number of cigars sales 000s	Pipe productn tonnes	pipe import ?units	pipe export ?units	pipe sales
1971	19,640	762,274	26,500			1,017	2,058		
1972	18,039	770,780	24,300			1,007	2,616		
1973	17,834	750,292	26,600			904	3,627		
1974	17,170	665,791	30,800			983	2,160		
1975	16,247	529,199	41,400			880	2,250		
1976	15,365	493,170	45,600			821	2,063		
1977	16,652	483,341	56,500			807	2,328		
1978	15,570	441,494	57,400			739	2,210		
1979	15,494	388,919	78,500			678	2,377		
1980	16,338	407,084	111,000			707	2,543		
1981	15,279	394,442	120,400			647	2,690		
1982	16,392	373,080	115,000			621	2,654		
1983	16,426	300,349	79,700			573	2,718		
1984	16,529	293,974	79,000	16,000	356,974	531	2,740	574	2,697
1985	16,438	294,015	77,300	15,000	356,315	497	2,726	388	2,835

This table not completed due to lack of data on cigar/pipe exports.

Also problem with apparent discrepancy of pipe production/exports - wrong units?

2501186063

## D Switzerland Male Percentage of smokers

frequency product source year	age group																					all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +			
71 3 UC R								55																
72 5 A R								55																
73 8 UC U					41				52				45		41		26						41	
75 1 UC *					27				41				37		32								35	
75 1 UC U					34				49				44		36								42	
75 1 A U					36				55				57		51								52	
77 4 A R						43				51				47										
78 3 UC R								43																
79 5 A R	{51}																							
80 4 A R					47				45				46											
81 1 UC *					36				45				33		18								33	
81 1 UC U					40				53				38		20								38	
81 1 A U					40				58				49		31								46	
81 11 U U					30																			
82 7 U U								39																
83 6 UC U								39	40	41	42	46	48	46	44	35					42			
83 6 A U								43	47	46	48	50	52	50	51	41					48			
85 5 A R	{45}																							
85 9 UC R								38		34		34		28								32		
85 9 A A								49		47		50		45								47		
85 10 UC R												43		37		33								38
85 10 A A												53		46		40								47

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186064

## D Switzerland Female Percentage of smokers

frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
71 3 UC R									41														
72 5 A R																							
73 8 UC U					44				40				29		20		13						26
75 1 UC *					46				46				26		14						29		
75 1 UC U					46				46				26		14						29		
75 1 A U					46				46				26		14						29		
77 4 A R					41				29				15										
78 3 UC R									44														
79 5 A R																							
80 4 A R					41				28				17										
81 1 UC *					42				46				28		11				28				
81 1 UC U					42				46				28		11				28				
81 1 A U					42				46				28		11				28				
81 11 U U					43																		
82 7 U U									22														
83 6 UC U									56	53	52	46	37	33	28	23	20					40	
83 6 A U									56	53	52	46	37	33	28	23	20					40	
85 5 A R																							
85 9 UC R									33		31		15		13						21		
85 9 A A									41		40		26		16						29		
85 10 UC R											28		25		17						24		
85 10 A A											34		29		18						28		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186065



## E Switzerland Male Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
71 3 UCI								16														
72 5 AI								18														
75 1 UCI*				14					22			18			16							18
77 4 A					20				21				16									
78 3 UCI								16														
79 5 AI										18												
80 4 A				22					21				18									
81 1 UCI*				17					20		21			21							20	
83 6 UCI*								16	16	16	15	16	16	14	15	13					15	
85 5 AI										18												

## E Switzerland Female Cigarettes per smoker per day

product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
71 3 UCI								10															
72 5 AI																							
75 1 UCI*				13					11			12				13							12
77 4 A					13					18				12									
78 3 UCI								12															
79 5 AI																							
80 4 A					15					18				14									
81 1 UCI*				15					15			16				14							15
83 6 UCI*																							
85 5 AI																							

Product: U unspecified \* refer to notes  
 MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 I indicates mean calculated from %s in intervals  
 All ages: relevant to ages used and as given in original source

2501186066

## F Switzerland Male Cigarettes per person per day

product source year	age group																				all ages	% total sales					
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +				
71 3 UC									8.6														***				
72 5 A									10														***				
75 1 UC *					4.9				11				8.0				5.9								7.7	59% <sup>m</sup>	
77 4 A					8.6				11				7.5													***	
78 3 UC									6.7														***				
79 5 A	9.3																					***					
80 4 A					10				9.3				8.1													***	
81 1 UC *					6.8				11				8.0				4.2								7.6	69% <sup>m</sup>	
83 6 UC *									6.1	6.5	6.6	6.2	7.3	7.6	6.2	6.5	4.4									6.4	***
85 5 A	8.0																					***					

## F Switzerland Female Cigarettes per person per day

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
71 3 UC								4.1															***	
72 5 A																						***		
75 1 UC *				5.8					5.3			3.2				1.8							3.5	59% <sup>m</sup>
77 4 A					5.2				5.2				1.9									***		
78 3 UC								5.1															***	
79 5 A																						***		
80 4 A					6.2				5.1				2.2									***		
81 1 UC *				6.4					7.0			4.3				1.6							4.3	69% <sup>m</sup>
83 6 UC *																						***		
85 5 A																						***		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501186067

## G Switzerland Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales			
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +		
71 3 UC									8.6														***		
72 5 A									10														***		
75 1 UC *					8.2					18			13				9.9							13	59% <sup>m</sup>
77 4 A					8.6					11				7.5											***
78 3 UC									6.7														***		
79 5 A											{ 9.3 }											***			
80 4 A					10					9.3				8.1											***
81 1 UC *					9.8					15			12				6.0							11	69% <sup>m</sup>
83 6 UC *									6.1	6.5	6.6	6.2	7.3	7.6	6.2	6.5	4.4						6.4	***	
85 5 A											{ 8.0 }											***			

## G Switzerland Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales					
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +				
71 3 UC									4.1														***				
72 5 A																						***					
75 1 UC *					9.8					8.9			5.4				3.0								5.9	59% <sup>m</sup>	
77 4 A						5.2					5.2					1.9											***
78 3 UC									5.1														***				
79 5 A																						***					
80 4 A						6.2					5.1					2.2											***
81 1 UC *					9.2					10			6.2				2.3								6.2	69% <sup>m</sup>	
83 6 UC *																						***					
85 5 A																						***					

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

All ages: relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501186068

Table H SWITZERLAND

year	source	% SMOKERS				product code	ORIGINAL		product adjust factor	CIGARETTES PER MAN & PER WOMAN		ADJUSTED	
		product /freq code	man cigs m w	tot cigs m w	all prods m w		per man	per woman		ADJUSTED to MAN CIGS per man	per woman	ADJUSTED to TOT CIGS per man	per woman
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
61													
62													
63													
64													
65													
66													
67													
68													
69													
70													
71													
72													
73	8	UC/U		40 27					m (	12.1 6.7)			
74													
75	1	UC/*		34 30		UCI*	7.3 3.6		m 59	12.3 6.0			
	1	UC/U		41 30									
	1	A/U			50 30								
76													
77	4	A/R			47 24	A	8.7 3.5						
78													
79													
80	4	A/R			45 23	A	8.5 3.7						
81	1	UC/*		32 28		UCI*	7.2 4.2		m 69	10.4 6.1			
	1	UC/U		36 28									
	1	A/U			44 28								
82	7	U/U			38 22								
83	6	UC/U		38 34		UCI*	5.8						
	6	A/U			44 34								
84													
85													

2501186069

USA

Source  
number

- 2 Ref: National Health Interview Surveys in:  
65, 76, 80: US Dept Health & Human Services (1983)  
65: Harris (1983) and US Dept Health & Human Services (1967)  
70, 74, 78, 83: US Dept. Health and Human Services (1987)  
85: US Dept. Health and Human Services (1988)  
Note: 1. Interval estimation based on <11,11-20,21-40,41+ (1956,66,67,68) and -14,15-24,25+ (1965,76,80)  
2. Guesstimates for age 15-19, % smokers, Male 1965:30, 1976-80:25, 1983,85:20; Female 1965:20, 1976-80:25, 1983,85:20. Cigs per person, Male 1965:5.0, 1976:4.0, 1980:3.0; Female 1965,76:3.0, 1980:2.5. For age 15-16, % smokers, Male 1965-68,70,74:15, 1978:12; Female 1965-68:10, 1970:12, 1974:15, 1978:10. Cigs per person, Male:2.0; Female:1.0  
3. In-person household interviews  
4. Consumption per person in 1965 based on regular smokers
- 4 Ref: US Dept of Health, Education and Welfare (1969), (1970)  
67, 68: Monthly Vital Statistics Report (1970)  
GFT table no: 3.1, 3.3  
Note: 1. 1955 data originally in Haenszel et al (1956), later version with minor changes has been used  
2. Supplements to the Current Population Survey.
- |                    | 1955  | 1966  | 1985   |
|--------------------|-------|-------|--------|
| Households         | 21000 | 35000 |        |
| Response rate      | 96%   | 96%   |        |
| Individuals        | 45000 | 69000 | 114000 |
| Proxy interviews M | 42%   | 65%   | ) 45%  |
| F                  | 17%   | 25%   | )      |
3. Average consumptions calculated from regular smokers only  
4. Interval estimation based on 1-9,10-20,21-40,41+  
5. Guesstimates for age 15-17, % smokers, Male:20; Female 1955:10, 1966:15. Cigs per person, Male 1955:2.0, 1966:3.0; Female 1955:1.0, 1966:2.0. For age 15-16, % smokers, 1967,68 only, Male:15; Female:10. For age 15, % smokers, 1985 only, Male and Female:10
- 7 Ref: US Dept Health, Education and Welfare (1972) and (1979)  
GFT table no: 5.1, 5.2  
Note: 1. Telephone surveys (1968 survey included 10% personal interviews in non-telephone households). Sample size 1968: 4931, 1970: 2640, 1972: 2790, 1974: 2553,

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- 1979: 2639
2. Weekly smokers
  3. Interval estimation based on weekly but not daily (assume 0.5), 1-4, 5-9, 10+
- 9 Ref: Adult Use of Tobacco Surveys in: US Dept Health, Education and Welfare (1973), (1976) and Waingrow et al (1968)
- Note: 1. 1964 and 1966, primarily in person household interviews  
1970: 91% telephone, 9% personal interviews. Sample size 5200  
1975: 7% personal interviews, sample size 12,000  
1986: Telephone interviews only, sample size 13,000, response rate 74.3%
2. Data from 1966 taken from charts
  3. Interval estimation based on 0-4, 5-14, 15-24, 25-34, 35-44, 45-54, 55-64, 65+
  4. Guesstimates for age 15-20, % smokers, Male 1964, 66, 70:30, 1975:25; Female 1964, 66, 70:20, 1975:25. Cigarettes per person, Male 1964, 70:5.0; Female:3.0. For age 15-16, 1986 only, % smokers, Male and Female: 10. Cigs per person, Male:1.5; Female 1.0
- 10 Ref: Hamtoft and Lindhard (1955)
- Note: 1. No original reference, results taken from graph  
2. Whites, in Columbus Ohio. Sample size 2,500  
3. Results are also shown for negroes for certain age groups for all tobacco products - they are always higher than the figure for whites  
4. Interval estimation based on 1-20, >20  
5. Guesstimates for age 15-19, % smokers, Male:30; Female:15. Cigs per person, Male:5.0; Female:2.0  
6. Assumed no female smoker of other products
- 11 Ref: Harris (1983) quoting Fortune (1935)
- 12 Ref: Remington et al (1985)
- Note: 1. 1981-83 Behavioral Risk Factor Surveys. Telephone interviews in 28 states, sample size 22236 (80% response)  
2. Guesstimates for age 15-17, % smokers, Male and Female:15
- 13 Ref: Morbidity and Mortality Weekly report (1987) quoting Gallup Poll
- Note: Guesstimate for age 15-17, % smokers, Male:20; Female:10
- 14 Ref: Clark (1976)
- Note: 1. Sample size 826, drawn from national probability sample of 3000 households. Year unknown  
2. Interval estimation based on packs/day <1, 1, >1 (assume 1-19, 20, 21+)

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- 15 Ref: Surgeon General (1989) quoting Johnston et al (1987)  
 Note: 1. NIDA sponsored High School Seniors Surveys.  
 Nationally representative samples of high school seniors (age?) but not representative since it does not include high school drop-outs. Sample size 1975: 9400, 1976-79: 15400-17800  
 2. Regular smokers defined as daily, all smokers as any cigarette use in last 30 days.
- 16 Ref: WHO (1989)  
 Note: 1. Regional survey forming part of WHO MONICA Project
- | Region   | Population size | Sample size | Participation rate% | Sample used<br>M F | Date        |
|----------|-----------------|-------------|---------------------|--------------------|-------------|
| Stanford | 84600           | 1402        | 69                  | 698 803            | 05.79-04.80 |
- (whole country 76.7mn)  
 Sample used includes age 25-34, all other figures are for age 35-64 only.  
 2. Overall % relates only to age 35-64.  
 3. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or lg. pipe tobacco per week, or 1 cigar per week.
- 17 Ref: Hammond and Garfinkel (1961)  
 Note: 1. American Cancer Society Million Person Study.  
 Conducted in 25 states, Oct 1959-Feb 1960.  
 Families with at least one member aged over 45 enrolled by volunteers. Not representative, as sample comprised 97% whites, and over-represented married and better educated persons.  
 2. Interval estimation based on 1-9, 10-19, 20, 21-39, 40, 41+.  
 3. The category A/A includes a few subjects who smoked but with smoking pattern uncertain, and a few women who smoke pipes or cigars only.  
 4. Cigarettes per smoker and per person are based on regular cigarette smokers.

#### General note

For calculation of adjustment factors, 1984 consumption data were used for 1985. 1950 population data were used for 1944, 47, and 49.

Data for sales for 1974 onwards, Ref: Tobacco Industry Profile, Tobacco Institute.

Data for 1979 and 1985 not available.

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No data on the smoking of HR cigarettes is available for the USA, and it appears to have been relatively unimportant since the war. Hammond (1958) comments that the decline in use of HR probably contributed to the apparent rise in manufactured cigarette consumption between 1935 and 1955.

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Table A USA

Consumption of Cigarettes and of All Tobacco  
 Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1920	44656	1.7					298600	11.3
1921	50899	1.9					288900	10.7
1922	53582	1.9					307700	11.2
1923	64469	2.3					314700	11.2
1924	71024	2.5					319000	11.1
1925	79976	2.7					324600	11.1
1926	89460	3.0					334600	11.3
1927	97188	3.2					335000	11.1
1928	105927	3.4					338200	11.0
1929	119049	3.8					349200	11.2
1930	119632	3.8					339900	10.7
1931	113455	3.5					327800	10.2
1932	103589	3.2					301600	9.3
1933	111766	3.4					304900	9.2
1934	125700	3.8					322500	9.6
1935	134610	4.0					330700	9.8
1936	153169	4.5					356100	10.4
1937	162629	4.7					362400	10.4
1938	163761	4.6					364100	10.3
1939	172469	4.8					373200	10.5
1940	180664	5.0					382200	10.6
1941	206432	5.6					409900	11.2
1942	235841	6.4					435200	11.8
1943	257743	6.9					441500	11.8
1944	239287	6.3					413700	11.0
1945	267652	7.0					452400	11.9
1946	321475	8.4					485300	12.6
1947	335731	8.6					491900	12.6
1948	348731	8.9					507500	12.9
1949	351809	8.9					505500	12.7
1950	360199	9.0					511900	12.7
1951	379725	9.4					528700	13.0
1952	394109	9.7					560200	13.7
1953	386826	9.4					554100	13.5
1954	368725	8.9					533400	12.8
1955	382061	9.1					545200	12.9
1956	393154	9.2					548800	12.9
1957	409436	9.5					550300	12.7
1958	436354	9.9					570100	13.0
1959	453681	10.2					584400	13.1
1960	470136	10.4					588100	13.0
1961	488119	10.7					611700	13.4
1962	494463	10.6					608600	13.1
1963	509588	10.8					651700	13.8
1964	497447	10.3					648800	13.5
1965	511464	10.5					652300	13.3
1966	522533	10.5					641000	12.9
1967	527800	10.5					631400	12.5
1968	523008	10.2					628100	12.3
1969	510531	9.8					608000	11.7
1970	532769	10.0					612200	11.5
1971	528858	9.7					599200	11.0
1972	551017	10.0					626600	11.3
1973	590300	10.5					639900	11.4
1974	610400	10.7					647227	11.3
1975	619100	10.5					648490	11.0
1976	626700	10.5					671052	11.2
1977	620000	10.2					659658	10.8
1978	616000	9.9					654085	10.5
1979	612000	9.7						
1980	630000	9.8					663615	10.3
1981	640000	9.8					672052	10.3
1982	634000	9.6					663823	10.1
1983	600000	9.0					633189	9.5
1984	600000	8.9					631272	9.4
1985	600000	8.8						

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## USA

Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes millions	Cigars millions	Large cigars & cigarillos millions	Little cigars millions	Pipe & RYO mn lbs	Chewing tobacco mn lbs	Snuff mn lbs
1974	610,400	6,400			59.6	79.2	25.0
1975	619,100	5,800			52.6	79.1	25.3
1976	626,700		5,400	2,200	53.9	84.0	25.7
1977	620,000		4,950	1,900	47.0	88.7	24.4
1978	616,000		4,700	1,640	44.0	92.3	24.3
1979 n/a							
1980	630,000		4,000	1,400	37.4	106.0	23.9
1981	640,000		3,900	1,300	36.5	106.5	25.5
1982	634,000		3,700	1,300	33.6	88.0	43.9
1983	600,000		3,600	1,330	33.3	86.6	45.7
1984	600,000		3,500	1,300	29.7	86.0	47.5
1985 n/a							

year	Cigarettes tons (assuming .88g per cig)	Cigars tons (assuming 5.6g, 7.94g 1.13g)	Pipe & RYO tons	Chewing tobacco tons	Snuff tons	Total Weight
1974	537,152	35,840	27,029	35,918	11,338	647,277
1975	544,808	32,480	23,855	35,873	11,474	648,490
1976	551,496	45,362	24,444	38,095	11,655	671,052
1977	545,600	41,450	21,315	40,227	11,066	659,658
1978	542,080	39,171	19,955	41,859	11,020	654,085
1979						
1980	554,400	33,342	16,961	48,073	10,839	663,615
1981	563,200	32,435	16,553	48,299	11,565	672,052
1982	557,920	30,847	15,238	39,909	19,909	663,823
1983	528,000	30,087	15,102	39,274	20,726	633,189
1984	528,000	29,259	13,469	39,002	21,542	631,272
1985						

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars	% pipe & RYO	%ChewTob	%Snuff
1974	82.99	5.54	4.18	5.55	1.75
1975	84.01	5.01	3.68	5.53	1.77
1976	82.18	6.76	3.64	5.68	1.74
1977	82.71	6.28	3.23	6.10	1.68
1978	82.88	5.99	3.05	6.40	1.68
1979					
1980	83.54	5.02	2.56	7.24	1.63
1981	83.80	4.83	2.46	7.19	1.72
1982	84.05	4.65	2.30	6.01	3.00
1983	83.39	4.75	2.39	6.20	3.27
1984	83.64	4.63	2.13	6.18	3.41
1985					

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frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
35 11 UC U				66																		
44 13 UC U							48															
47 10 UC U									67		61		61		51		35		11			
47 10 A U									78		79		82		71		65		45			
49 13 UC U								54														
55 4 UC R								48		60		58		54		41		22			50	
55 4 UC A								53		64		62		58		46		26			54	
59 17 UC R											59		55		50		36		23		10	47
59 17 A R											67		65		61		52		41		33	59
59 17 A A											67		65		61		53		43		34	59
64 9 UC U									67	60		60		53		51		35			53	
65 2 UC R							49			59				52				28			51	
65 2 UC A									59	61		58		56		47		33		21	52	
66 4 UC R								48		59		57		53		46		24			49	
66 4 UC A								48		59		57		53		46		25			49	
66 9 UC U									62	60		59		54		48		33			52	
67 4 UC U							44			56				50				26			48	
68 4 UC U							41			55				47				25			46	
68 7 UC R	3		14		20		26		36													
70 2 UC U							44															
70 7 UC R	6		17		22		32		43													
70 9 UC U									50	47		49		43		37		23			42	
72 7 UC R	5		18		18		28		32													
74 2 UC U							43															
74 7 UC A	4		18			31																
75 9 UC U									41	44		47		41		34		24			39	
75 14 UC U																						
75 15 UC R							27															
75 15 UC A							37															
76 2 UC A									46	49		48		41				23			42	
76 15 UC R							28															
76 15 UC A							38															
77 2 U U									41													
77 15 UC R							28															
77 15 UC A							38															
78 2 UC U											38											
78 15 UC R							26															
78 15 UC A							35															
79 2 U U									38													
79 7 UC A	3		14			19																
79 15 UC R							22															
79 15 UC A							31															
79 16 UC R											36		51		35		31					40
79 16 A A											37		53		38		36					43
80 2 UC A									50	43		43		41				18			38	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186078

frequency product source year	age group																					all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
80 15 UC R						18																	
80 15 UC A						26																	
81 15 UC R						18																	
81 15 UC A						26																	
82 12 UC U							34																
82 15 UC R						18																	
82 15 UC A						27																	
83 2 UC U									36														
83 15 UC R						19																	
83 15 UC A						28																	
84 15 UC R						16																	
84 15 UC A						26																	
85 2 UC U									31	38		38		33				20				33	
85 4 UC U					32																		
85 15 UC R						17																	
85 15 UC A						27																	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186079

frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
35 11 UC U				26																			
44 13 UC U							36																
47 10 UC U									40	42	26	16	12	3									
47 10 A U									40	42	26	16	12	3									
49 13 UC U							33																
55 4 UC R							28	34	31	22	11	3						24					
55 4 UC A							33	39	35	26	13	5						27					
59 17 UC R											42	37	26	13	7	3					27		
59 17 A R											42	37	26	13	7	3					27		
59 17 A A											43	39	27	14	8	3					28		
64 9 UC U									42	41	39	36	21	8						32			
65 2 UC R							34	44	32	9								33					
65 2 UC A									42	44	44	37	25	12	5					34			
66 4 UC R							34	43	41	37	23	8						32					
66 4 UC A							35	43	41	37	23	8						32					
66 9 UC U									49	45	41	42	21	8						34			
67 4 UC U							31	41	31	9								31					
68 4 UC U							29	40	31	10								31					
68 7 UC R	1	7	12	16	21																		
70 2 UC U							31																
70 7 UC R	3	12	16	18	28																		
70 9 UC U									32	40	39	36	24	10						31			
72 7 UC R	3	13	20	26	25																		
74 2 UC U							32																
74 7 UC A	5	20	26																				
75 9 UC U									40	35	36	33	26	10						29			
75 14 UC U		27					36																
75 15 UC R							26																
75 15 UC A							36																
76 2 UC A									34	38	38	35	13						33				
76 15 UC R							28																
76 15 UC A							38																
77 2 U U									31														
77 15 UC R							30																
77 15 UC A							40																
78 2 UC U							30																
78 15 UC R							29																
78 15 UC A							39																
79 2 U U									29														
79 7 UC A	4	12	26																				
79 15 UC R							28																
79 15 UC A							37																
79 16 UC R											34	45	33	30						37			
79 16 A A											34	45	34	30						37			
80 2 UC A									33	32	35	31	17						30				

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501186080

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
80 15 UC R						24																
80 15 UC A						34																
81 15 UC R						22																
81 15 UC A						32																
82 12 UC U							29															
82 15 UC R						24																
82 15 UC A						33																
83 2 UC U									29													
83 15 UC R						23																
83 15 UC A						33																
84 15 UC R						21																
84 15 UC A						32																
85 2 UC U									33	32		32		30				14				28
85 4 UC U					25																	
85 15 UC R						21																
85 15 UC A						32																

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186081



product source year	age group																					all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +			
47 10 UCI*									28	29		30		29		28		25						
55 4 UCI								16		18		19		19		17		14			18			
59 17 UCI											22		22		21		18		14			21		
64 9 UCI									22															
65 2 UCI						16			19				19				15				18			
65 2 UCI										18	20		21		21				16				20	
66 4 UCI							17			19		20		20		19		15			19			
67 4 UCI						16			20				20				15				19			
68 4 UCI						16			20				20				16				19			
68 7 UCI	7.3		8.9		10	11	14																	
70 2 UC										21	21		23		24		22		17			22		
70 7 UCI	6.9		6.3		10	12	13																	
70 9 UC									22															
72 7 UCI	7.0		9.2		11	15	16																	
74 7 UCI	11		14			17																		
75 2 UC										19	22		23		25		25		20			23		
75 9 UC									23															
75 14 UCI																								
76 2 UCI										19	21		23		23				18				21	
79 7 UCI	9.5		13			15																		
80 2 UC										19	22		26		27		23		21			23		
80 2 UCI										19	21		24		23				20				22	
86 9 UC						23																		

2501186082

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

product source year	age group																				all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +
47 10 UCI*									22		22		23		21		19		18		
55 4 UCI								12		13		13		13		12		9.4			13
59 17 UCI										16		16		15		13		11			15
64 9 UCI														17							
65 2 UCI						13				16				15				12			15
65 2 UCI								15		16		17		16				13			16
66 4 UCI								14		16		16		16		15		13			16
67 4 UCI								14		16				16				13			15
68 4 UCI								14		16				16				13			16
68 7 UCI	5.1		9.3	8.1	8.3	10															
70 2 UC									16	18		19		18		17		14			18
70 7 UCI	6.3		7.8	9.7	9.8	10															
70 9 UC														18							
72 7 UCI	6.6		10	7.3	11	13															
74 7 UCI	6.2		11		13																
75 2 UC									19	19		20		20		19		16			19
75 9 UC														19							
75 14 UCI								18													
76 2 UCI								16	18		18		18		18		15				18
79 7 UCI	8.0		12		13																
80 2 UC									18	19		23		21		20		16			20
80 2 UCI									16	19		20		19				15			18
86 9 UC														19							

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

2501186083

F USA

Male Cigarettes per person per day

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
47 10 UC *									19		18		18		15		9.7		2.8			119% <sup>m</sup>	
55 4 UC								7.5		11		11		10		7.1		3.1			8.9	62% <sup>m</sup>	
59 17 UC											13		12		11		6.6		3.0			9.8	***
64 9 UC									12													75% <sup>m</sup>	
65 2 UC									10		12		12		11			4.7				10	70% <sup>m</sup>
65 2 UC						7.5			12				9.9			4.1				9.4	65% <sup>m</sup>		
66 4 UC							8.0			11		11		11		8.7		3.6			9.3	63% <sup>m</sup>	
67 4 UC						7.0			11				9.8			3.9				9.0	60% <sup>m</sup>		
68 4 UC						6.6			11				9.4			4.0				8.7	62% <sup>m</sup>		
68 7 UC	0.2		1.2		2.1	2.9	4.9																***
70 7 UC	0.4		1.0		2.2	3.7	5.7																***
70 9 UC									9.3													68% <sup>m</sup>	
72 7 UC	0.3		1.6		2.0	4.0	5.3																***
74 7 UC	0.4		2.6		5.1																		***
75 14 UC																						***	
76 2 UC									8.5		10		11		9.4			4.1				8.9	64% <sup>m</sup>
79 7 UC	0.3		1.7		3.0																		***
80 2 UC									7.5		9.1		10		9.6			3.6				8.3	63% <sup>m</sup>

F USA

Female Cigarettes per person per day

product source year	age group																					all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +			
47 10 UC *									8.9		9.2		5.9		3.3		2.3		0.5				119% <sup>m</sup>	
55 4 UC								3.3		4.6		4.0		2.8		1.2		0.3			3.0	62% <sup>m</sup>		
59 17 UC											6.6		5.9		3.9		1.7		0.7			4.1	***	
64 9 UC									5.4															75% <sup>m</sup>
65 2 UC									6.2		7.2		7.4		5.1				1.3			5.4	70% <sup>m</sup>	
65 2 UC						4.4				6.7				4.7				1.1			4.9	65% <sup>m</sup>		
66 4 UC							4.9			6.8		6.6		5.9		3.3		1.0			4.9	63% <sup>m</sup>		
67 4 UC						1.4				6.6				4.9				1.1			4.8	60% <sup>m</sup>		
68 4 UC						4.1				6.6				4.8				1.3			4.7	62% <sup>m</sup>		
68 7 UC	0.0		0.7		0.9	1.3	2.1																	***
70 7 UC	0.2		1.0		1.6	1.7	2.9																	***
70 9 UC									5.5															68% <sup>m</sup>
72 7 UC	0.2		1.3		1.4	2.8	3.2																	***
74 7 UC	0.3		2.3		3.4																		***	
75 14 UC							7																***	
76 2 UC									5.4		6.8		6.9		6.3				2.0			5.8	64% <sup>m</sup>	
79 7 UC	0.3		1.4		3.3																		***	
80 2 UC									5.4		5.9		5.1		5.8				2.6			5.5	63% <sup>m</sup>	

2501186084

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
All ages: relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

G USA

Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
47 10 UC *									16		15		15		12		8.1		2.4			119% <sub>m</sub>	
55 4 UC								12		18		18		16		12		5.0			14	62% <sub>m</sub>	
59 17 UC											13		12		11		6.6		3.0		9.8	***	
64 9 UC									15													75% <sub>m</sub>	
65 2 UC									15		17		18		15			6.7			15	70% <sub>m</sub>	
65 2 UC							12			18			15			6.4			15	65% <sub>m</sub>			
66 4 UC								13		18		18		17		14		5.7			15	63% <sub>m</sub>	
67 4 UC							12			19			16			6.6			15	60% <sub>m</sub>			
68 4 UC							11			18			15			6.4			14	62% <sub>m</sub>			
68 7 UC	0.2		1.2		2.1		2.9		4.9													***	
70 7 UC	0.4		1.0		2.2		3.7		5.7													***	
70 9 UC									14													68% <sub>m</sub>	
72 7 UC	0.3		1.6		2.0		4.0		5.3													***	
74 7 UC	0.4		2.6			5.1																***	
75 14 UC																							***
76 2 UC									13		16		17		15			6.4			14	64% <sub>m</sub>	
79 7 UC	0.3		1.7			3.0																***	
80 2 UC									12		14		16		15			5.7			13	63% <sub>m</sub>	

G USA

Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
47 10 UC *									7.5		7.7		5.0		2.8		1.9		0.4			119% <sub>m</sub>		
55 4 UC								5.4		7.5		6.5		4.5		1.9		0.5			4.9 62% <sub>m</sub>			
59 17 UC											6.6		5.9		3.9		1.7		0.7			4.1 ***		
64 9 UC									7.2													75% <sub>m</sub>		
65 2 UC									8.8		10		11		7.2				1.8					7.7 70% <sub>m</sub>
65 2 UC						6.8				10				7.3				1.7					7.6 65% <sub>m</sub>	
66 4 UC							7.8			11		11		9.4		5.3		1.6					7.8 63% <sub>m</sub>	
67 4 UC						2.4				11				8.2				1.8					8.1 60% <sub>m</sub>	
68 4 UC						6.6				11				7.7				2.1					7.6 62% <sub>m</sub>	
68 7 UC	0.0			0.7		0.9		1.3		2.1													***	
70 7 UC	0.2			1.0		1.6		1.7		2.9													***	
70 9 UC									8.1													68% <sub>m</sub>		
72 7 UC	0.2			1.3		1.4		2.8		3.2													***	
74 7 UC	0.3			2.3			3.4																***	
75 14 UC								7														***		
76 2 UC									8.4		11		11		9.8				3.1					9.0 64% <sub>m</sub>
79 7 UC	0.3			1.4			3.3																***	
80 2 UC									8.6		9.4		8.1		9.2				4.1					8.7 63% <sub>m</sub>

2501186085

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

Table H USA

year	source	% SMOKERS			CIGARETTES PER MAN & PER WOMAN						ADJUSTED		
		product /freq code	man cigs m w	tot cigs m w	all prods m w	product code	ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
							per man	per woman		per man	per woman	per man	per woman
40													
41													
42													
43													
44	13	UC/U		46 34					m	( 8.1	4.8)		
45													
46													
47	10	UC/U		52 27		UCI*	14.7	5.8	m 119	12.3	4.9		
48	10	A/U			70 27								
49	13	UC/U		52 32					m	( 12.1	5.9)		
50													
51													
52													
53													
54													
55	4	UC/R		48 23		UCI	8.5	2.8	m 62	13.7	4.6		
56	4	UC/A		52 26									
57													
58													
59													
60													
61													
62													
63													
64	9	UC/U		51 30		UCI	10.6	5.1	m 75	14.2	6.8		
65	2	UC/R		49 32		UCI	9.0	4.7	m 65	13.9	7.2		
	2	UC/A		50 32					m	( 13.9	7.2)		
66	4	UC/R		47 30		UCI	8.7	4.7	m 63	13.9	7.4		
	4	UC/A		47 31									
	9	UC/U		50 32					m	( 14.1	7.3)		
67	4	UC/U		46 30		UCI	8.6	4.1	m 60	14.4	6.9		
68	4	UC/U		44 29		UCI	8.3	4.6	m 62	13.4	7.3		
69													
70	9	UC/U		40 29		UC	8.6	5.1	m 68	12.7	7.6		
	2	UC/U		42 30					m	( 12.9	7.4)		
71													
72													
73													
74	2	UC/U		41 31					m	( 13.4	8.1)		
75	9	UC/U		37 29					m	( 13.1	8.2)		
76	2	UC/A		40 31		UCI	8.3	5.3	m 64	12.9	8.2		
77	2	U/U			39 31				m	( 12.6	8.0)		
78	2	UC/U		36 29					m	( 12.2	7.8)		
79	2	U/U			37 29				m	( 12.0	7.5)		
80	2	UC/A		38 29		UCI	7.7	4.8	m 63	12.3	7.6		
81													
82	12	UC/U		33 28					m	( 11.5	7.9)		
83	2	UC/U		34 28					m	( 10.9	7.3)		
84													
85	2	UC/U		32 27					m	( 10.5	7.2)		
	4	UC/U		31 25					m	( 10.8	6.9)		

2501186086